SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN

Ash Grove Cement Company 3801 East Marginal Way South Seattle, Washington 98134

Clayton Project No. 75-03217.00 December 15, 2005

Prepared for:
ASH GROVE CEMENT COMPANY
Seattle, Washington

Prepared by:
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SPCC PLAN CERTIFICATION AND REVIEW PAGE

I hereby certify that I have examined the facilities, and being familiar with the provisions of Title 40 CFR, Part 112, attest that this plan has been prepared in accordance with good engineering practices and the applicable SPCC regulation and that it is adequate for this facility.

Professional Engineer: Michael Zimmerman, P.E.
Registration Number: Washington 39305
Company: Clayton Group Services
Signature:
Date:
This plan has the full approval of management at a level of authority to commit the necessary resources to implement this plan.
Ash Grove Cement Company Representative: <u>Craig Puljan</u>
Title: Plant Manager
Signature:
Date:



PROPOSED SCHEDULE FOR MODIFICATIONS

This facility has proposed to complete the following projects according to the schedule shown below, which will ensure the site is in compliance with the SPCC Plan requirements of 40 CFR 112.7.

The Professional Engineer signed and certified the SPCC Plan with the expectation that the implementation schedule would be adhered to and completed as proposed. The list and schedule below include a location for the facility representative(s) to sign as each project is completed.

Project	Scheduled Date of Completion	Signature and Date Completed (Note 1)
1. No Listed Actions	N/A	N/A (Signature)
		(Date)

Note 1.By signing here, I certify that the work was completed on the date noted, and it was performed as proposed by the Professional Engineer at the time this SPCC Plan was signed and certified.



DESIGNATED PERSONS ACCOUNTABLE FOR OIL SPILL PREVENTION

The following person is accountable for oil spill prevention at this Facility and this person has reviewed this SPCC Plan, is familiar with and is responsible for implementing the requirements of this SPCC Plan.

Craig Puljan, Plant Manager

MANAGEMENT APPROVAL ACKNOWLEDGEMENT

I am familiar with the requirements included in this SPCC Plan and acknowledge that this SPCC Plan will be implemented as described herein with full management approval. In addition, I have reviewed and certified the Substantial Harm Determination Form in Appendix B, which exempts this Facility from having to prepare and submit a Facility Response Plan to the United States Environmental Protection Agency Regional Administrator.

Ash Grove Technologies Representative:	Craig Puljan
	Print Name
Signature:	
Title: Plant Manager	
Date:	



SPCC PLAN REVIEW AND AMENDMENT LOG

Revision Made	Page Section Number	Date	Initials	P.E. Certification Necessary?
Bulk Storage Tanks	3.2.3/pg 16	9/15/05		Yes / No
Add: Fueling mobile equipment from stationary tanks	3.2.3/pg 16	9/15/05		Yes / No
Add: Parking Mobile equipment	3.2.3/pg 16	9/15/05		Yes / No
Appendix E- Portable Diesel Tank Procedures #2 changed "taken" to "stored"	Appendix E	9/15/05		Yes / No
350-Gallon Hydraulic Dock Crane Reservoir. Added language that discusses secondary containment structure.	3.1.1.1/pg.7	10/24/05		Yes / No
300-Gallon Portable Fuel AST. Added language describing volume of new tank and that it is double walled.	3.1.1.1/pg.8	10/24/05		Yes / No
Design of filling areas. Added language regarding fuel truck and equipment.	3.1.4/pg. 10	10/24/05		Yes / No
Add: Fueling small stationary tanks	3.2.3/pg. 15	10/24/05		Yes / No
Add: Secondary containment for fuel delivery truck for fuel storage AST	Table 1	10/25/05		Yes / No
Add: Secondary containment for dock crane hydraulic reservoir	Table 1	10/25/05		Yes / No



Revision Made	Page Section Number	Date	Initials	P.E. Certification Necessary?
Add: Double walled construction for Portable fuel tank	Table I	10/25/05		Yes / No
Add: Drums (2) Used antifreeze Drums are stored on secondary containment pallets	Table 1	10/25/05		Yes / No
Add: Drums (2) Waste oil Drums are stored on secondary containment pallets	Table 1	10/25/05		Yes / No
Add: Drums (2) Hydraulic Oil Drums are stored on secondary containment pallets	Table 1	10/25/05		Yes / No
Language added updating plant spill history	2.4/pg.5	10/30/05		Yes / No
Add: "Personnel" in oil transfer description	2.3.4/pg.5	10/31/05		Yes / No
Change from Table "3" to Table "2".	2.5/pg.6	10/31/05		Yes / No
Removed language about locking the controls on the 1,000 gallon diesel above ground storage tank.	3.1.2/pg. 9	10/31/05		Yes / No
Added language to address routine inspection of secondary containment structures for AST's.	3.2.1/pg. 12	10/31/05		Yes / No
Added language identifying the frequency of AST inspections and where the inspection forms are	3.2.2.1/pg.	10/31/05		Yes / No



located in the SPCC plan.	_		
Identified where tank integrity inspection procedures are located.	3.2.2.2/pg.	10/31/05	Yes / No
Identified when integrity testing was last performed and on what AST's	3.2.2.2/pg. 14	10/31/05	Yes / No
Change from Table "5" to "4"	3.2.2.4/pg 15	10/31/05	Yes / No
Change from Appendix "D" to Appendix "C".	3.2.2.4/pg.15	10/31/05	Yes / No
Added language describing the operation and purpose of the dock "stiff" leg hydraulic crane.	3.2.3/pg. 17	10/31/05	Yes / No
Added language describing the fueling of the barge loader.	3.2.3/pg. 17	10/31/05	Yes / No
Struck language referencing the locking of the fuel pumps.	3.2.5/pg. 18	10/31/05	Yes / No
Change from Appendix "G" to Appendix "F".	4.1.2/pg. 19	10/31/05	Yes / No
Added language to include, "those employees required to fuel mobile equipment" to the personnel training requirements.	4.3/pg. 20	10/31/05	Yes / No
Included language about notification of appropriate governmental and regulatory agencies.	4.3/pg. 21	10/31/05	Yes / No
Added USCG (United States Coast Gnard) to list of agency visitors	4.4.5/pg. 23	10/31/05	Yes / No



Included names and contact numbers of appropriate government agencies on Master Spill Reporting Log	Appendix D	10/31/05	Yes / No
Struck "clinker annex" and replaced with "Old Raw Mill Building"	Appendix E "Diesel Transfer Procedures"	10/31/05	Yes / No
Struck "clinker annex" and replaced with "Old Raw Mill Building"	Appendix E "Dock Crane Hydraulic Oil Spill Procedures"	10/31/05	Yes / No
Struck "clinker annex" and replaced with "Old Raw Mill Building"	Appendix E "Raw Mill Hydraulic Oil Spill Procedures"	10/31/05	Yes / No
Struck "clinker annex" and replaced with "Old Raw Mill Building"	Appendix E "Used Oil Holding Tank Procedures"	10/31/05	Yes / No
Struck "clinker annex" and replaced with "Old Raw Mill Building"	Appendix E "Portable Tank Fuel Spill Procedures"	10/31/05	Yes / No
Removed "Foss Environmental 24 Hour Notification" from contact list	Appendix F	10/31/05	Yes / No



1.0 INTRODUCTION

This Spill Prevention Control and Countermeasure (SPCC) Plan establishes procedures, methods, equipment, and other requirements to prevent the discharge of oil into or upon the navigable waters of the United States (U.S.) or adjoining shorelines for the Ash Grove Cement Company facility (Ash Grove), located at 3801 East Marginal Way South in Seattle Washington (the Facility).

This SPCC Plan was prepared in accordance with the regulations of Title 40 of the Code of Federal Regulations, Part 112.7 (40 CFR 112.7) and any other applicable section of 40 CFR Part 112. This SPCC Plan meets the requirements in the revised regulations that were effective on August 16, 2002. A cross-reference of applicable regulatory requirements and the locations where they are discussed in this SPCC Plan is provided in Appendix A.

This SPCC Plan is a carefully thought-out plan, prepared in accordance with good engineering practices, and which has the full approval of management at a level of authority to commit the necessary resources. A signed Management Approval Acknowledgement as required in 40 CFR 112.7 is found at the front of this SPCC Plan. In accordance with 40 CFR 112.3(d), this Plan includes a Professional Engineer's review and certification at the front of this Plan. Ash Grove's designated person(s) accountable for oil spill prevention and reporting to line management is (are) identified at the front of this SPCC Plan.

This SPCC Plan, and the implementation thereof, is designed to complement existing laws, regulations, rules, standards, policies and procedures pertaining to safety standards, fire prevention and pollution prevention rules, so as to form a comprehensive balanced federal/state spill prevention program to minimize the potential for oil discharges. The Facility will continue to comply with other Federal, State or local laws.

1.1 APPLICABILITY

The Ash Grove Facility is considered a non-transportation-related onshore facility. Due to its location, the Facility could reasonably be expected to discharge oil into or upon the navigable waters of the U.S. or adjoining shorelines. This determination was based solely on geographic and location aspects of the Facility (such as proximity to navigable waters or adjoining shorelines, land contour, drainage, etc.), and excludes consideration of man-made features such as dikes, equipment or other structures that serve to prevent an oil discharge from reaching navigable waters of the U.S. or adjoining shorelines.

The Facility's aboveground storage capacity is greater than 1,320 gallons of oil.

Consequently, the Facility is required to develop, implement, and maintain a SPCC Plan



under 40 CFR 112.1(a), (b), (d), and (e). Per 40 CFR 112.1(d)(2)(ii), only containers with a capacity of 55 gallons or greater are counted in the calculation of the Facility's aboveground storage capacity. Containers with a capacity less than 55 gallons are exempt from all SPCC requirements and thus not covered in this Plan.

Sufficient equipment or structures are available to prevent discharged oil from reaching navigable waters or adjoining shorelines. Therefore, an oil spill contingency plan as described in 40 CFR 109 is not required or included in this SPCC Plan, and 40 CFR 112.7(d) of the SPCC regulations does not apply to the Facility.

1.2 SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN LOCATIONS

The Facility is attended at least four hours a day; therefore, a copy of the SPCC Plan is maintained at the Facility and is available to the U.S. Environmental Protection Agency Regional Administrator (USEPA RA) for onsite review in the following location(s):

Plant Management Office

1.3 CERTIFICATION OF SUBSTANTIAL HARM DETERMINATION FORM

The Oil Pollution Prevention regulation of 1990 (OPA 90), originally promulgated under the Clean Water Act, directs facilities that could cause substantial harm to the environment by discharging oil into navigable waters of the U.S. to prepare and submit a Facility Response Plan for responding to a worst case discharge of oil and to a substantial threat of such a discharge. Under 40 CFR 112, Appendix C, facilities that do not meet the substantial harm criteria are not required to maintain a Facility Response Plan; however, they must document and maintain their determination as part of their SPCC Plan. The Facility does not meet the substantial harm criteria; therefore, it is not required to maintain a Facility Response Plan under 40 CFR 112.20. A Substantial Harm Determination Form for the Facility is provided in Appendix B.

2.0 FACILITY INFORMATION

2.1 NAME AND ADDRESS OF FACILITY AND OWNER

Facility Name:

Ash Grove Cement Company

Street Address:

3801 East Marginal Way South, Seattle, Washington 98134

Owner:

Ash Grove Cement Company

Person in Charge of

Mr. Gerald Brown



Oil Spill Prevention: Safety/Environmental Manager

Site Description: The site consists of 23 acres bordered on the north and south by Port of

Seattle facilities, on the east by Stoneway Concrete, and on the west by the Duwamish River. The majority of the site is either paved or covered

by buildings, although some unpaved areas exist near the barge

unloading area.

Facility Description: The facility is a cement manufacturing plant. In these operations, the

facility uses hydraulic oils in a variety of equipment and diesel fuel for

vehicles. Additionally, used oil is stored on site.

Operations History: The Ash Grove Company has operated the facility since 1984.

Oil Storage and Use Oil and petroleum products are handled and stored in the facility at the

Locations: locations identified in Table 1.

The Facility is located in Seattle, King County, Washington. Figure 1 is a 1:24,000 scale USGS topographic map that shows the Facility and the area within at least a ¼ mile of the Facility boundary. The surface water body nearest to the Facility is the Duwamish River, which forms the western property boundary of the Facility.

2.2 FACILITY DESCRIPTION

The Ash Grove facility in Seattle, Washington is a manufacturing plant that produces Portland cement. The facility is located on a 23-acre site in an area of industrial development. Raw materials are unloaded from barges on the Duwamish River (located along the western edge of the plant). The raw materials include sources of oxides of calcium, silicon, aluminum and iron. The sources used at this plant are limestone, silica rock, clay, and iron scale. The selected materials are proportioned to give the desired chemistry prior to being ground and dried. This material is then homogenized and fed to the kiln. The kiln system is fed the dry material through a series of cyclones that preheat the feed with exhaust gasses before it is introduced to the kiln. Inside the kiln, the raw feed is heated to 2,800 degrees Fahrenheit and the reaction of the individual components into calcium silicate nodules is completed. This material is called clinker. The clinker is then milled and stored in silos or in a dome prior to distribution via rail or truck. The kilns are fired by coal, tires and natural gas.

The facility operates 24 hours per day, seven days a week. The operation capacity is 750,000 tons of cement clinker per year. The facility and the operations are depicted in Figure 2.



There is no stormwater discharge from this facility into the bordering waterway (Duwamish River). Storm water from the plant passes through an oil/water separator and an underground retention tank before being discharged into the Metro/King County storm drain. Water from the truck wash area is diverted into an oil/water separator prior to discharge into the Metro combined sewer system.

2.3 OIL STORAGE AND HANDLING LOCATIONS

Table 1 summarizes the oil containers, tanks or vessels, contents, and volumes present at the Facility at the time of the SPCC Plan's certification. The locations of the containers, tanks or vessels are shown in Figure 2.

2.3.1 Oil-Filled Ancillary Equipment

Ash Grove is only responsible for compliance under the SPCC regulations for any transformers onsite that the Facility owns and operates. Ash Grove is not responsible for compliance under the SPCC regulations for any transformers onsite that are owned and operated by the local utility, Seattle City Light.

Ash Grove owns or operates nine oil-filled electrical transformers onsite that are subject to the requirements of 40 CFR 112 (Figure 2). Table 1 includes details on the locations, size and contents of these units.

2.3.2 Other Oil Storage Containers

The Facility does not maintain any portable oil storage tanks onsite, except for the 300-gallon portable diesel AST.

The Facility does maintain portable oil storage containers of 55 gallons or less onsite. Table 1 includes details on the locations, size and contents of these containers.

Absorbent spill response materials are stored at various locations onsite. Spill response materials are used to respond to hazardous material spills at the Facility, and would therefore be used to contain a spill of portable oil containers.

2.3.3 Oil Transfer Piping

There are no underground or aboveground pipes at the Ash Grove facility that are used to convey petroleum products except for short lengths of dispenser piping used to dispense fuel to vehicles. During such times, all petroleum handling systems will be visually inspected. Any deficiencies will be immediately noted in the inspection records maintained in Appendix D, and corrective actions initiated. Pressure testing of the piping systems is not expected to be necessary but could be performed if warranted. The above ground diesel



tanks and dispenser pipes are protected from damage by vehicular traffic by being placed away from normal vehicle traffic, or by placement of bollards around the equipment.

2.3.4 Oil Transfers

The bulk diesel and hydraulic oil tanks are filled via commercial diesel fuel vendors from bulk tank trucks. Ash Grove personnel will escort the tanker trucks to the site of refill and will observe the tanker operator filling the diesel tanks. Ash Grove requires the vendor to bring their own spill containment materials, however, in the case of a catastrophic release, Ash Grove would make its spill containment materials available and assist as needed to control any oil release. Facility personnel would also be present when the fuel tanks are emptied to replace old fuel. In case of a spill during loading and unloading operations, vendor and/or Ash Grove personnel should immediately notify the Control Room according to Plant Emergency Notification Procedures. Personnel can respond quickly to minimize the quantity that is spilled and can readily contact additional Ash Grove personnel if further assistance is needed.

It is not expected that transformers would need to be totally filled during use. If they are to be topped-off, the oil is received in 5-gallon containers. Any releases, would therefore, be limited to 5-gallons or less and could easily be contained. If a transformer completely looses dielectric fluid, they would likely fail necessitating their replacement.

2.3.5 Internal Heating Coils

There are no tanks with internal heating coils at the Facility. Therefore, the internal heating coil requirements of 40 CFR 112.8I(7) do not apply to this Facility.

2.4 SPILL HISTORY

The Facility had two reportable oil spills during the 12-month period prior to the review and certification of this SPCC Plan. According to Mr. Gerald Brown, Ash Grove Safety and Health Manager, approximately 2-gallons of diesel fuel were released via a hole in a filter during a barge offloading process. Mr. Brown stated that the fuel spilled onto sand that was carried on the barge and was discharged with accumulated rainwater. According to Mr. Brown, the incident was reported to the Washington State Department of Ecology and the U.S. Coast Guard. The second spill was approximately one gallon of hydraulic oil that discharged into the Duwamish waterway from one of the dock crane hydraulic lines. The hydraulic line was immediately repaired, and the facility has implemented a more frequent hose inspection program. The incident was reported to the Washington State Department of Ecology and the U.S. Coast Guard.



2.5 REASONABLE POTENTIAL FOR EQUIPMENT FAILURES

Table 2 includes scenarios and areas that present a reasonable potential for equipment failure (such as an overflow, rupture, or leakage) resulting in a potential spill at the Facility. These scenarios include a prediction of the direction, rate of flow, and total quantity of oil that could be discharged from the Facility as a result of each major type of failure.

3.0 SPILL PREVENTION, CONTROL AND COUNTERMEASURES

The Facility uses a combination of engineering and design controls as well as operational procedures to minimize the potential release of oil. In the event of a release, sufficient containment or adequate control measures are provided to prevent releases from reaching navigable waters or adjoining shorelines.

The Facility is an onshore facility with bulk oil storage. The following SPCC Regulations do not apply to the Facility:

- 40 CFR 112.9 Spill Prevention, Control, and Countermeasure Plan requirements for onshore oil production facilities;
- 40 CFR 112.10 Spill Prevention, Control, and Countermeasure Plan requirements for onshore oil drilling and workover facilities;
- 40 CFR 112.11 Spill Prevention, Control, and Countermeasure Plan requirements for offshore oil drilling, production, or workover facilities; and,
- 40 CFR 112.12 Spill Prevention, Control, and Countermeasure Plan
 requirements for onshore facilities (excluding production facilities). Subpart C—
 Requirements for Animal Fats and Oils and Greases, and Fish and Marine
 Mammal Oils; and for Vegetable Oils, including Oils from Seeds, Nuts, Fruits,
 and Kernels.

3.1 ENGINEERING AND DESIGN CONTROLS

3.1.1 Secondary Containment Design

All oil storage tanks and containers are provided with appropriate containment and diversionary structures or equipment to prevent discharged oil from reaching navigable waters. The containment systems are capable of containing oil and are constructed to be sufficiently impervious so that any discharge from a primary containment system, such as a tank or pipe, will not escape the containment system before cleanup occurs.



Ash Grove will contain and cleanup small spills. For large spills, the Facility will either call 911 or an outside spill response contractor depending on the nature of the release. A potential oil release could be contained within the Facility, even if it occurred during a 25-year, 24-hour storm event, if not by the secondary containment at the source, then by the use of spill response equipment.

3.1.1.1. Secondary Containment Design for ASTs

Adequate secondary containment is provided for the aboveground storage tanks (ASTs) and containers as described below:

- 1,000-Gallon Diesel Fuel Storage Tank- A concrete containment completely impounds the tank (labeled Item A on Figure 2). The volume of the containment is 30,890 gallons.
- 350-Gallon Hydraulic Dock Crane Reservoir- The tank (labeled Item C on Figure 2) is mounted above the crane's power unit and spill pan. The pan is designed to contain any leaks in the tank and pump unit, and has a capacity of 175 gallons. An additional secondary containment tank has been attached to the spill pan to assure capture of the entire contents of the hydraulic reservoir. The additional reservoir is located on a concrete pad. A concrete berm surrounds the hydraulic lines that lead to the dock and are designed to contain a potential small release of the hydraulic oil lines should a rupture occur. A 10-inch fluid level sight gauge is provided to monitor any changes in fluid levels within the tank. The system is designed to automatically shut down whenever a loss of tank volume is detected by a side-mounted liquid level switch.
- Raw Mill Hydraulic Reservoir- The reservoir (labeled Item D on Figure 2) is located inside the Raw Mill building. The building, its concrete floors, and its walls provide adequate containment for this tank. Additional containment consists of a blind sump located in the center of the room.
- 600-Gallon Used Oil ASTs- The used oil tanks (labeled Item E on Figure 2) are located at the southwest corner of the preheating tower. The two 600-gallon aboveground tanks are used to store used oil collected from within the plant from lubrication of site machinery. A concrete containment structure completely surrounds the area. The containment volume is 1,137-gallons and should be sufficient to contain a release from one of the largest tanks in the area as required by the SPCC regulations.
- 300-Gallon Portable Fuel AST- The portable storage AST is used for the transport of diesel fuel to site locations as needed. The tank may be taken by forklift truck to site locations for the purpose of refueling equipment, such as front



end loader, etc. The AST is also transported over water to docked barge(s) with the stiff leg crane. Storage of this tank is prohibited within 250 feet of the waterfront, near the storm drains at the Clinker Storage silos and the truck wash rack decant basin. Water from these drains does not pass through the oil/water separator before being discharged. The tank is double walled and requires no additional containment.

- Square Tanks & Drums in Burner Building- Containers of hydraulic and lubricating oils are stored inside the Burner Building and are maintained on a concrete floor. The building, its concrete floors, and its walls provide adequate containment for these tanks.
- Diesel Emergency Generator With 400-Gallon AST- One diesel generator with a 400-gallon diesel fuel AST (labeled Item I on Figure 2) is located to the south of the clinker storage building. The generator is situated under cover within the building. A blind sump is located near the AST and would collect any spilled material thus preventing a discharge outside of the building to a nearby storm drain.

3.1.1.2. Secondary Containment Design for Buried Tanks

There are no buried tanks present at the Facility that contain oil.

3.1.1.3. Secondary Containment Design for Oil-Filled Ancillary Equipment

Transformers are located throughout the Facility. Generally, the transformers are located on concrete pads within fence areas that are kept locked. The concrete pads are typically surrounded by an asphalt surface used for parking or vehicular traffic. Typically, transformers are adjacent to the buildings but are not covered by a roof.

Transformers typically used in industrial applications do not have engineered secondary containment systems (such as integral curbs). Because of their weight, however, they are usually placed on concrete pads that serve to contain small leaks that would be the most commonly expected type of release. Because transformers are critical elements in the power delivery system, any major loss of oil-based dielectric fluid would occur simultaneously with power problems. In addition, transformers are typically in or near personnel foot or vehicle traffic areas so releases would likely be observed when they are small. Therefore facility personnel are expected to be able to observe and respond to oil releases from transformers in a manner to protect the waters of the United States. Furthermore, the hydrophobic and oleophilic booms around the transformers will allow rainwater to pass while absorbing and forming a dike to contain releases of transformer oils.



These existing containment measures are believed to be adequate, however, because a complete and sudden release of oil from transformers is unlikely. In addition, the transformer malfunction resulting from loss of dielectric fluid would be obvious through loss of power and/or change in power quality. The oil release would be observed and controlled before oil would overflow and be released to storm drains or impact the waters of the United States

3.1.1.4. Secondary Containment Design for Portable Containers

Most of the portable containers are stored indoors or in areas that are sufficiently impervious, act as secondary containment, and would contain a potential release for the largest container stored in the area. The buildings, their concrete floors, and their walls provide adequate containment for the portable containers. Alternatively, any releases from portable containers currently stored outdoors can be expected to flow towards storm drains that ultimately discharge into the Facility's oil/water separator.

3.1.2 Tank and Pipe Construction

The tanks are specifically designed to handle petroleum fuels such as diesel and are compatible with the contents/materials stored and conditions of storage such as pressure and temperature. These tanks are also designed to withstand a variety of hazards, including impact resistance for the ASTs. The bulk storage tank installations include secondary means of containment as discussed in Section 3.1.1.

- 1000-Gallon Fuel Storage Tank- The tank construction consists of 1/4 inch ASTM A-36 steel with rolled heads. The 1,000-gallon capacity tank is filled and vented through 1-1/2 inch ports. A stick gauge is used to measure the amount of fuel in the tank. An associated dispensing pump, equipped with an automatic shut off nozzle, is located within the concrete containment.
- 350-Gallon Hydraulic Dock Crane Reservoir- The receiving dock crane is an electrically powered, hydraulically operated "A" Frame Breast Derrick. The associated hydraulic reservoir is a 350-gallon capacity horizontal AST designed to contain Chevron AW ISO 32 Hydraulic Fluid. A 10-inch fluid level sight gauge is provided to monitor any changes in fluid levels within the tank. The system is designed to automatically shut down whenever a loss of tank volume is detected by a side mounted liquid level switch. Hydraulic lines for the operation of the winches consist of 2-inch Schedule 80 PVC pipe that runs from the reservoir, underneath the dock, to the winches. Soft piping is used to connect the pipe with hard lines at the control valves and the hoist winch on the dock and on the shore boom winch.



- The Raw Mill Hydraulic Reservoir- The reservoir consists of a 374-gallon steel tank containing Chevron AW ISO 68 Hydraulic Fluid. A site gauge is provided to monitor any changes in fluid levels within the tank.
- 600-Gallon Used Oil ASTs- The construction of the two tanks consists of welded \(\frac{1}{4} \) -inch stainless steel with a removable top. The tanks are filled and vented through a 9-inch diameter opening in the top. A stick gauge is used to measure the amount of oil in the tank.

3.1.3 Construction of Oil Filled Electrical Equipment

- The transformers are constructed of steel and were built to meet the electrical industry standards to prevent releases of oil and safe use of the equipment;
- Transformers #3 through #8 are situated within a concrete berm that would contain any releases of oils. With the exception of Transformer #1 (located on the 2nd floor of the coal mill) the remaining equipment (Transformers #2 and #9) are installed on concrete pads that will help contain potential oil releases onsite; and,
- In the event that there was a significant oil release from the electrical equipment, the equipment would eventually shutdown power and would immediately alert company staff to correct the oil release issue.

3.1.4 Design of Filling Areas

Diesel fuel is received by truck delivery and off-loaded into the AST by the delivery personnel. The delivery truck and equipment being fueled is parked on a concrete surface within a bermed area large enough to accommodate approximately 50% of a 1,350-gallon delivery vehicle, the largest volume of any single compartment on the delivery vehicle.

Delivery personnel are required to attend the controls at all times during the off loading process. Each delivery truck is required to carry spill absorbent material for immediate response and cleanup of any spill occurring on site. Additional cleanup material is located in the adjacent Old Raw Mill Building, and maintained for immediate use. Procedures for diesel fuel transfer operations and spill response protocols are posted at the tank location for quick reference by plant personnel.

Fuel is transferred into the 300-Gallon Portable Fuel AST from the 1,000-Gallon Diesel Storage Tank (Item A. Figure 2), and then transported to the remote site by the forklift operator. The operator is prohibited from leaving the transfer process unattended.



3.1.5 Drainage Design

The oil storage and handling locations at the Facility are constructed to control drainage and prevent oil spills from being released offsite, or are constructed with built-in secondary containment. The Facility is graded to drain towards various storm drains located throughout the Facility.

Figure 2 indicates the surface drainage patterns at the facility. Bulk fuel storage is contained by integral double-walled tank construction or by concrete berms that serve as secondary containment devices. All other locations store only small quantities of petroleum-based materials. Such materials are generally handled inside the building or within asphalt or concrete areas outside. Any such releases can be quickly and effectively contained to a small local area and will be cleaned up as soon as possible.

A small release from a transformer would typically be contained on the concrete transformer pad. In the event of a release of transformer fluids, absorbent materials may be placed around the base of the transformer or directly under the leak to contain the release. Transformer #1 is located on the 2nd floor of the Coal Mill Building. Areas around all transformers are bermed and graded so that runoff flows into storm drains that discharge into the Facility's oil/water separator.

3.1.6 Overall Facility Drainage

The portion of the facility where industrial activity occurs is nearly entirely covered with concrete and asphalt paving, with the exception of landscaped areas. The facility drainage system has been designed and constructed according to accepted engineering practices to channel storm water sheet flow and run off into storm water sewers. The facility is not expected to be subject to periodic flooding, and release prevention measures for flooding are not required.

The storm water from the facility is collected and discharged to a 2,715- gallon retention tank and oil water separator prior to discharge into the municipal stormwater system.

3.1.7 Tank Containment Drainage

Drainage from transformers – The outdoor transformer pads are open and will be exposed to rain. Transformers #3 through #8 are situated within a concrete berm that would contain any releases of oils. With the exception of Transformer #1 (located on the 2nd floor of the coal mill) the remaining equipment (Transformers #2 and #9) are installed on concrete pads that will help contain potential oil releases onsite. The concrete berm containment areas do not have drain valves but are drained via portable pumps.



Drainage from undiked areas – Drainage from undiked areas will be localized and flow to the nearest storm drain. Any oil spills would likewise flow to onsite storm drains only if the integral secondary containment structure were breached. Virgin materials may also be stored outside of secondary containment pallets before use. These oil containers are equipped with factory sealed threaded drainage fittings, and must be manually opened. Any spill or leak from a container would probably be able to be contained locally due to the small volume of the oil containers. Accordingly, appropriate personnel are trained in spill management procedures. Spill containment equipment such as oil absorbent is readily available for use in case of incidental releases.

3.1.8 Security Design Features

Chain-link fencing and security gates enclose the Facility. Access into the Facility is available through a gate at the entrance. There is adequate lighting in the oil handling areas that allows detection of spills or releases both by operating personnel and by non-operating personnel, such as the general public or local police, and prevention of spills occurring through acts of vandalism.

3.1.9 Emergency Response Equipment Storage Locations

The Facility maintains emergency response equipment (absorbents, brooms, and shovels) onsite to respond to spills of oil and other hazardous materials. The locations of the equipment are depicted on the Facility Map.

3.2 OPERATIONAL PROCEDURES

3.2.1 Secondary Containment Inspections

Secondary containment structures for the 1000 gallon diesel fuel tank, dock crane hydraulic reservoir, raw mill hydraulic reservoir, Used oil AST's, and emergency generator diesel tank, are visually inspected on a monthly basis to ensure they have integrity to contain any leaks (Section 4.2). The inspection form for secondary containment can be found in Appendix C. Ash Grove personnel will promptly correct any visible oil leaks that result in a loss of oil from tank seams, gaskets, rivets, and bolts sufficiently large to cause the accumulation of material in secondary containment areas.

Ash Grove Production Department Staff or Maintenance Department Staff will notice a release during tank inspections or during site walkthroughs. If an employee, contractor, or Security identifies any emergency that requires assistance from outside the immediate workplace, then he or she will start internal notifications as identified in Section 4.1.1.



3.2.2 Tank and Pipe Procedures

3.2.2.1. Inspections of ASTs

Ash Grove Production Department Staff or Maintenance Department Staff will perform routine inspection of areas associated with oil storage on a monthly basis. The system is maintained in accordance with plant preventive maintenance programs, which include monthly inspection of the containment for cracks or other damage. The inspection form for AST's can be found in Appendix C. Defects affecting the integrity of the containment will be remedied immediately.

3.2.2.2 Integrity Testing of AST's

Facility container inspections comply with the requirements in the Federal (SPCC) regulations:

- SPCC Requirement [40 CFR 112.81(6)]: Test each aboveground container for integrity on a regular schedule, and whenever you make material repairs. The frequency of and type of testing must take into account container size and design (such as floating roof, skidmounted, elevated, or partially buried). You must combine visual inspection with another testing technique such as hydrostatic testing, radiographic testing, ultrasonic testing, acoustic emissions testing, or another system of nondestructive shell testing. You must keep comparison records and you must also inspect the container's supports and foundations. In addition, you must frequently inspect the outside of the container for signs of deterioration, discharges, or accumulation of oil inside diked areas. Records of inspections and tests kept under usual and customary business practices will suffice for purposes of this paragraph. To meet the "periodic integrity testing" requirement, Ash Grove monitors the following:
- To meet the "frequent observation" requirement, monthly inspections are performed of the ASTs, containment areas (if present), including stick gauges on the single-walled tanks, secondary containment berms around the 1,000-Gallon Diesel Fuel Storage AST and the two 600-Gallon Used Oil AST as well as the areas below the other miscellaneous storage units.

Ash Grove will perform periodic integrity testing of the metal ASTs every ten years, or sooner if a release into the secondary containment tank occurs. This will include:

- A leak test rating that meets the standards specified for aboveground tanks (or in their absence the standards specified for underground tanks).
- Documentation of these tank integrity tests; and,



Maintenance of comparison records for tank testing.

Per 40 CFR 112.7(e), the Facility may use usual and customary business records to serve as a record of tests or inspections, instead of keeping duplicate records for the SPCC Plan. These inspections are documented in the Facility inspection log sheets that are maintained onsite. The inspections and tests are conducted in accordance with written procedures developed by the Facility or by the Professional Engineer that certified the Plan. These procedures can be found in the Plant's electronic maintenance management system.

Integrity testing was performed on June 28, July 2nd, and 6th of 2004 on the following above ground storage tanks:

- Fuel Storage "AST", 1000 gallons, diesel
- Dock Crane Hydraulic Reservoir, 350 gallons, hydraulic oil
- Hydraulic Reservoir (Philadelphia), 374 gallons, hydraulic oil
- Used Oil "AST" (Identical Twin Tanks), 600 gallons, used oil
- Emergency Generator Diesel Tank, 400 gallons, diesel

The records and formal report of the tank integrity testing is kept on the plant site.

Facility personnel frequently observe tanks during operating hours. Formal inspections are conducted by the Facility following the schedule in the Facility Inspection Report and Checklist (Appendix C). These include observations of the outside of each tank for signs of deterioration, leaks which might cause a spill, or accumulation of oil inside containment and diked areas and around the down-grade storm drain catch basins. The personnel also observe the tank supports and foundations.

The Facility does not own, operate, or maintain field-constructed aboveground containers. Therefore, the brittle fracture inspection or evaluation requirements in 40 CFR 112.7(i) do not apply to the Facility.

3.2.2.3 Inspections of Underground (Buried) Storage Tanks

The Facility does not operate any buried or underground storage tanks (USTs) that contain oil. Therefore, the requirements of leak testing in 40 CFR 112.7(e)(2)(iv) and (v) do not apply to the Facility.



3.2.2.4 Procedures for Pipes

The Facility implements the following procedures for oil pipes:

- Pipelines that are not in use for extended periods of time (six months or more) are capped or blind flanged and marked as to their origin.
- Aboveground valves and pipelines are regularly examined by operating personnel following the schedule in Table 4 and the guidelines in Appendix C. The general condition of items, such as flange joints, expansion joints, valve glands and bodies, catch pans, pipeline supports, locking of valves, and metal surfaces are assessed or examined to detect leaks and potential equipment failures.
- Periodic pressure testing may be warranted for piping in areas where Facility
 drainage is such that a failure might lead to an outdoor release spill event. The
 drainage in these areas is designed so that a piping failure would not lead to a spill
 event.
- Vehicular traffic granted entry into the Facility in areas of oil storage/handling is
 not required to be verbally warned, because the system design is not vulnerable to
 vehicle traffic. The pipes are not located over roadways, and traffic barriers are
 located in front of tanks in asphalt areas to protect them from possible vehicle
 contact.

3.2.3 Oil Transfer Procedures

The Facility does not maintain a tank car and tank truck loading/unloading rack; therefore, the operational procedure requirements in 40 CFR 112.7(h) do not apply.

There is no truck loading/unloading rack at the Ash Grove facility to handle petroleum materials and therefore the provisions of 40 CFR 112.7(e)(4) do not apply.

Bulk Storage Tanks- The bulk diesel and hydraulic oil tanks are filled via commercial diesel fuel vendors from bulk tank trucks. Ash Grove personnel will escort the tanker trucks to the site of refill and will observe the tanker operator filling the diesel tanks. Ash Grove requires the vendor to bring their own spill containment materials, however, in the case of a catastrophic release, Ash Grove would make its spill containment materials available and assist as needed to control any oil release. Facility personnel would also be present when the fuel tanks are emptied to replace old fuel. In case of a spill during loading and unloading operations, vendor and/or Ash Grove personnel should immediately notify the Control Room according to Plant Emergency Notification Procedures. Personnel can respond quickly to minimize the quantity that is spilled and can readily contact additional Ash Grove personnel if further assistance is needed.



All of the tank trucks and loading/unloading procedures meet the minimum requirements and regulations established by the U.S. Department of Transportation (U.S. DOT). Storage tank filling operations are performed to ensure that a tank is not overfilled. Prior to departure of any tank truck, the lowermost drain and all outlets of such vehicles are closely examined for leaks, and if necessary, tightened, adjusted, or replaced to prevent liquid leaks while in transit.

To contain spills that may occur while the bulk diesel tank is being filled, the bulk diesel tank truck is parked on a concrete surface within a bermed area large enough to accommodate approximately 50% of a 1,350-gallon truck compartment. This is the largest volume of any single compartment on the delivery vehicle.

Fueling of mobile equipment- These precautions will apply during the fueling of mobile equipment from the bulk diesel tank and portable AST. The equipment will be parked on the concrete surface within a bermed area. Additionally equipment operators will receive documented training described in this plan, be in attendance during fueling operations and have a spill kit present in the event of a spill.

Fueling of small stationary tanks- Fueling of small stationary tanks will be from the portable AST. Equipment operators will receive documented training described in this plan, be in attendance during fueling operations and have a spill kit present in the event of a spill.

Parking of mobile equipment- Production equipment such as loaders and large mobile equipment as well as maintenance equipment such as cranes and manlifts will be parked on a concrete surface so that in the event of a fuel leak, the fuel will be routed to and contained by the oil water separator. Equipment operators will receive documented training described in this plan and spill kits will be present near the parked equipment in the event of a spill.

Transfer/Pumping Operations for Other Petroleum Materials- Various lubricants and other petroleum products are delivered to the site in 55-gallon drums or smaller containers. Waste oils, if generated, will be placed directly into 55-gallon drums or other appropriately sized containers. Virgin lubricant and waste oil containers will be kept on impervious surfaces such as concrete and asphalt.

Facility personnel will be present and/or have direct control over lube oil dispensing and use and waste oil-draining operations. Spill cleanup materials are staged in the area for use by facility personnel. In case of a spill during such operations, facility or contract maintenance personnel can respond quickly to minimize the quantity of oil that is spilled.

Operation of Stiff Leg Crane at Unloading Dock- The operation of the stiff leg crane is used to load and off-load equipment onto a barge. While this operation is in progress the



hydraulic system is attended and the hydraulic lines are monitored for leakage. The hydraulic lines are inspected on an annual basis by the plant maintenance department.

Fueling barge loader- Fuel transfers are made to the barge loader using the portable 300-gallon diesel fuel tank. The double walled portable tank is hoisted from the dock onto the barge deck. A hose is used to fuel the barge loader from the portable tank. While filling the loader both the portable tank and the fuel transfer are monitored and employees are in attendance at all times during the refueling operation.

It is not expected that transformers would need to be totally filled during use. If they are to be topped-off, the oil is received in 5-gallon containers. Any releases, would therefore, be limited to 5-gallons or less and could easily be contained. If a transformer completely looses dielectric fluid, they would likely fail necessitating their replacement.

3.2.4 Drainage Procedures

The portion of the facility where industrial activity occurs is nearly entirely covered with concrete and asphalt paving, with the exception of landscaped areas. The facility drainage system has been designed and constructed according to accepted engineering practices to channel storm water sheet flow and run off into storm water sewers. The facility is not expected to be subject to periodic flooding, and release prevention measures for flooding are not required.

The storm water from the facility is collected and discharged to a 2,715-Gallon retention tank and oil water separator prior to discharge into the municipal stormwater system.

The Facility does manage oils outdoors where rainwater may accumulate and drainage release procedures in 40 CFR 112.8I(3) do apply to the following pieces of equipment:

- Two of the Facility's seven transformers are located outdoors and will be exposed to rainwater. The two exposed units are not surrounded by any containment features; however, any spills would flow towards storm drains that lead to the oil/water separator. Seven of the units are located indoors and will not be exposed to rainwater.
- The 1,000-Gallon Diesel Fuel Storage AST is surrounded by a 30,890-gallon secondary containment that should be adequate to collect rainwater.
- The 400-Gallon Diesel Emergency Generator AST is surrounded by a 500-gallon secondary containment and is located indoors and; therefore, is not exposed to rainwater.
- The 350-Gallon Dock Crane Hydraulic Reservoir is situated above a 175-gallon spill pan that should be adequate to collect rainwater.



3.2.4.1 Rainwater Inspection Procedures

If rainwater accumulates in an area onsite that has the potential to be impacted by the oil containers described in this Plan, and there is an oil sheen or a small amount of floating oil is observed, the water may be discharged into the Facility's 2,715- gallon retention tank and oil water separator prior to discharge into the municipal stormwater system.

3.2.4.2 Spill Procedure to Prevent Release from Flowing Offsite Through the Facility Storm Drainage System

The Facility operates an oil/water separator system in conjunction with its storm drain system. Any spills or released liquids of any type would travel through the oil/water separator prior to being discharged into the Metro stormwater system. The Facility maintains spill cleanup kits and absorbents onsite to respond to minor releases.

3.2.5 Security Procedures

The Facility is in operation and is staffed 24 hours a day, seven days a week. Therefore, there are always Production Department Staff or Maintenance Department Staff onsite to detect for spills or releases and deter spills occurring through acts of vandalism.

The starter controls are site accessible only by authorized personnel when the pumps are in a non-operating or non-standby status.



4 <u>ADMINISTRATIVE REQUIREMENTS</u>

4.1 SPILL NOTIFICATION, REPORTING, AND RESPONSE REQUIREMENTS

A list of Emergency Contacts such as the agencies to be contacted in the event of an emergency is included in Appendix F. Appendix F is meant for reference use only.

4.1.1 Internal Notification

If an oil spill occurs, the Control Room must be notified and will respond according to the Plant Emergency Notification Procedures outlined in Appendix F.

When notified of an on-site emergency, Production Control will:

- U. J. Request emergency assistance from the appropriate agency (911 or Spill Response) and provide the following needed information:
- Identify yourself, (name & title)
- Identify plant address:

Ash Grove Cement Company

3801 East Marginal Way South

Seattle, WA

Plant Telephone Number: 206.623.5596

- Identify the type and nature of the emergency.
- Instruct the responding personnel that an escort will meet the emergency vehicles at the main entrance
- Identify the exact location of the spill
- Provide any additional information regarding the emergency (Fire, chemical spill or release, identity of materials involved and estimated quantities, etc.).
- After the emergency personnel leave the site, complete the Master Reporting Form provided in Appendix D.

4.1.2 External Agency Notification

The 24-hour emergency contact phone numbers for the agencies are included in Appendix F. Individual agencies have specific spill notification and reporting requirements that would apply if a release of oil occurred at the Facility.

Federal, State and local agency notification and reporting requirements for unauthorized oil releases are included in Appendix F. For example, any release that causes an oil sheen or that threatens waters of the state (to a storm drain) is a reportable release.



4.2 INSPECTIONS

The Facility Inspection Report and Checklist (Appendix C) includes an outline of the required SPCC inspections and frequencies for the Facility. Section 3.2.1 and Section 3.2.2 include more detailed information about the inspections performed at the Facility. Records of inspections and integrity testing will be retained as indicated in Section 4.4.3. If the inspections reveal any evidence of a release, record pertinent information in the Master Reporting Form provided in Appendix D.

4.3 PERSONNEL TRAINING

The personnel involved with the management and handling of oil and hazardous substances take part in periodic spill prevention and response training programs. The training program is an integral part of the facility's environmental training programs. The training will be conducted by an individual familiar with the SPCC Plan and will include the following topics:

- Introduction and Applicability
- · Oil Spill Prevention Regulations
- · Regulatory Requirements (training and trigger quantities)
- Spill Prevention, Control, and Countermeasures Plan
- · Reporting Requirements
- Spill Prevention
- Facility-Specific SPCC Review
- Spill Response Training Drill (Tabletop Exercise)

The Facility is responsible for providing regulatory-related training to oil-handling personnel and those employees required to fuel mobile equipment. Spill prevention briefings for oil-handling personnel and those employees required to fuel mobile equipment are conducted when plant or response modifications and/or changes are made or implemented or when plans are amended, as identified in Section 4.4.1. The discharge prevention briefings are scheduled for oil-handling personnel and those employees required to fuel mobile equipment at least once a year to assure adequate understanding of the Facility's SPCC Plan. Such briefings highlight and describe known discharges as described in 40 CFR 112.1(b) or failures, malfunctioning components, and any recently developed precautionary measures.

The training, at a minimum, trains oil-handling personnel and those employees required to fuel mobile equipment in the operation and maintenance of equipment to prevent discharges; discharge procedure protocols; applicable pollution control laws, rules, and



regulations; general Facility operations; notification of the appropriate governmental and regulatory agencies; and, the contents of the Facility SPCC Plan. Attendance at SPCC-related training is documented on class attendance sheets. Records of SPCC Plan training will be retained as indicated in Section 4.4.3.

4.4 MAINTAINING THE SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN

- The SPCC Plan is stamped and certified by a registered Professional Engineer at the front of this Plan:
- Management approval is necessary at a level that is authorized to commit necessary resources (Section 1.0);
- Copies of the SPCC Plan are maintained at the location(s) identified in Section 1.2;
- The SPCC Plan is reviewed at least every five years to determine if an amendment is necessary and the review is documented on the form at the front of this Plan (Sections 4.4.1 and 4.4.2);
- Ash Grove allows USEPA, Washington State Department of Ecology (Ecology), or local agency (such as the Fire Department) inspectors to come onsite and inspect the SPCC Plan, as directed by the regulations; and,
- As part of normal operations and this SPCC plan, the Facility has provisions for
 inspecting the site to prevent releases of oil to navigable waters, training
 personnel about the SPCC Plan, maintaining security of the site, and keeping
 records of such activities (Sections 4.2 and 4.3).

4.4.1 Spill Prevention Control and Countermeasure Plan Review and Amendment Requirements

The SPCC Plan must be amended whenever there is a change in Facility design, construction, operation, or maintenance, which materially affects the potential for the discharge of oil into or upon the navigable waters of the U.S. or adjoining shorelines. Such technical amendments shall be implemented as soon as possible, but not later than six months after such change occurs.

Facility modifications that could require a technical amendment are:

Addition of new tanks;



- Addition of new process equipment;
- Addition of new truck or rail loading/unloading facilities;
- Modifications that would reduce secondary containment or the ability to contain spills; or,
- Any other changes in the Facility or its operations that affect the Facility's potential to discharge oil to navigable waters or adjoining shorelines. This includes administrative or procedural changes such as reducing inspections from those specified in this SPCC Plan.

Even if there are no such modifications, a review and evaluation of the SPCC Plan must be completed at least once every five years in accordance with 40 CFR 112.5(b). The Facility will sign the statement at the front of this Plan as to whether it will amend the Plan to include the following:

- Such technology that will significantly reduce the likelihood of a spill event from the Facility as described in 40 CFR 112.1(b); and,
- Such technology that has been field proven at the time of review.

Any <u>technical</u> amendment to the SPCC Plan shall be certified by a Professional Engineer in accordance with 40 CFR Part 112.3(d) within six months after a change in the Facility design, construction, operation, or maintenance occurs which materially affects this Facility's potential for the discharge of oil into or upon the navigable waters of the United States or the adjoining shorelines.

A Professional Engineer certification is not required for <u>non-technical</u> amendments such as changes to phone numbers, names, etc. If the SPCC Plan does not require a technical amendment, the Facility operator/manager may sign and date the five-year review at the front of this Plan as indicated stating no technical amendment was necessary.

The most recent SPCC Plan review was conducted by Clayton Group Services and was certified as shown on the Professional Engineer Certification located at the front of this Plan.

4.4.2 Spill Prevention Control and Countermeasure Plan Review and Amendment Documentation

Each review or amendment to the SPCC Plan will be documented in the SPCC Plan Review and Amendment Log, which is found at the front of this SPCC Plan. Documentation should include the date and a summary of the review or amendment, the



name and signature of the person(s) performing the review or amendment, and identification of the Plan section(s) affected.

4.4.3 Records

Records of inspections, signed by the appropriate inspector or supervisor, are part of this SPCC Plan. Records of all inspections are maintained onsite for a minimum of three years.

4.4.4 Reports to Agencies

There are no requirements in the Federal or State laws or regulations to submit this SPCC Plan to agencies. The SPCC Plan will be maintained onsite and made available to agency inspectors upon their request.

Potential reports to agencies include the following:

Spill notification reports identified in Section 4.1

4.4.5 Agency Visits

The USEPA, Ecology, USCG, and local agencies are authorized to visit the Facility and inspect it and the SPCC Plan during normal working hours. If an agency representative visits the site, let them know they may perform the inspection, and contact the Site Manager and the representative in charge of this Plan to ask if they would like to be present during the agency visit.



TABLES



TABLE 1. SUMMARY OF OIL STORAGE/USE LOCATIONS

Container Description	Volume (Gallons)	Contents	Location	Comments
Fuel Storage AST	1000	Diesel	А	30,890-gallon containment. Secondary containment added for fuel truck deliveries as well as mobile equipment fueling.
Dock Crane Hydraulic Reservoir and Hydraulic Lines	350	Hydraulic Oil	С	A 175-gallon spill pan is present below the hydraulic reservoir. Additional spill containment has been added to bring the total containment volume up to a minimum of 385 gallons.
Hydraulic Reservoir (Philadelphia)	374	Hydraulic Oil	D	Inside building. Containment consists of a blind sump located in center of the room.
Square Tank	740	Gear Oil	D	Inside building. Containment consists of a blind sump located in center of the room.
Drums (2)	55	Hydraulic Oil	D	Inside building. Containment consists of a blind sump located in center of the room.
Used Oil ASTs (2)	600 each	Used Oil	E	1137 gallon containment (To date, these ASTs have not been utilized by the facility)
Portable Fuel Tank	300	Diesel	F	Double walled construction. Moved by forklift on/off nearby pier.
Square Tanks (4)	500 each	Hydraulic Oil	G	Inside building with no additional containment.
Drums (10)	55 each	Lubricants	G	Inside building. No additional containment
Lubricant Drums (6)	55 each	Lubricants	Н	The unit is located inside the Kiln Pier #I building. Any spills would be contained within the building.



TABLE 1. SUMMARY OF OIL STORAGE/USE LOCATIONS

Container Description	Volume (Gallons)	Contents	Location	Comments
Emergency Generator Diesel Tank	400	Diesel	I	500 gallon containment
Drums (2)	55 each	Used Antifreeze	К	Drums are stored on secondary containment pallets.
Drums (2)	55 each	Waste Oil	K	Drums are stored on secondary containment pallets.
Drum	55	Hydraulic Oil	К	Drums are stored on secondary containment pallets.
Square Tank	240	New Oil	К	Double-walled construction. Spill kits should be placed in the area in case of a minor spill during re-filling.
Square Tank	180	New Oil	К	Double-walled construction. Spill kits should be placed in the area in case of a minor spill during re-filling.
Transformer #1	240	Mineral Oil	2 nd Level Coal Mill	No containment. Any spills would flow towards the east into a storm drain that leads to the oil/water separator.
Transformer #2	194	Silicone	Clinker Silo	The unit is located inside the Clinker Silo building. Any spills would be contained within the building.
Transformer #3	211	Silicone	Finish Mill	The unit is located inside a concrete- bermed area. Any spills would be contained within the berm.
Transformer #4	211	Silicone	Finish Mill	The unit is located inside a concrete- bermed area. Any spills would be contained within the berm.
Transformer #5	162	Silicone	Finish Mill	The unit is located inside a concrete- bermed area. Any spills would be contained within the berm.



TABLE 1. SUMMARY OF OIL STORAGE/USE LOCATIONS

Container Description	Volume (Gallons)	Contents	Location	Comments
Transformer #6	169	Mineral Oil	Finish Mill	The unit is located inside a concrete- bermed area. Any spills would be contained within the berm.
Transformer #7	169	Mineral Oil	Finish Mill	The unit is located inside a concrete- bermed area. Any spills would be contained within the berm.
Transformer #8	194	Silicone	Group II Silo	The unit is located inside a concrete- bermed area. Any spills would be contained within the berm.
Transformer #9	308	Mineral Oil	Between Change House & Pack House	No containment. Any spills would flow towards the south into a storm drain that leads to the oil/water separator.



Potential Event	Equipment	Spill Direction	Estimated Potential Volume Released Minimum (Maximum)	Estimated Spill Rate
Complete failure of a full tank/container	Fuel Storage AST	Inside containment, or to storm drain system	50 gallons (1000 gallons)	10gpm to 20 gpm
	Dock Crane Hydraulic Reservoir and Hydraulic Lines	Into spill pan or onto ground, and if not immediately addressed, into the Duwamish River	50 gallons (350 gallons)	10 gpm to 20 gpm
	Hydraulic Reservoir (Philadelphia)	Within building	10 gallons (374 gallons)	Instantaneous
	Square Tank	Within building	100 gallons (740 gallons)	Instantaneous
	Drum	Within building	10 gallons (55 gallons)	10 gpm to 20 gpm
	Used oil ASTs (2)	Inside containment, or to storm drain system	10 gallons (600)	10 gpm to 20 gpm
	Portable Fuel Tank	Location dependent, onto ground	10 gallons (300 gallons)	10дрт 10 20 дрт
	Square Tanks (4)	Within building	10 gallons (500 gallons)	10 gpm to 20 gpm
	Drums (10)	Within building	10 gallons (55 gallons)	10 gpm to 20 gpm
	Lubricant Drums	Within building	10 gallons (55 gallons)	10 gpm to 20 gpm



Potential Event	= Equipment	Spill Direction	Estimated Potential Volume Released Minimum (Maximum)	Estimated Spill Rate
	Emergency Generator Diesel Tank	Inside containment, or to storm drain system	10 gallons (400 gallons)	10 gpm to 20 gpm
Complete failure of a full tank/container	Drums (2)	ENE to storm drain system	10 gallons (110 gallons)	10 gpm to 20 gpm
	Drums (2)	ENE to storm drain system	10 gallons (110 gallons)	10 gpm to 20 gpm
	Drum	ENE to storm drain system	10 gallons (55 gallons)	10 gpm to 20 gpm
	Square Tank	ENE to storm drain system	10 gallons (240 gallons)	10 gpm to 20 gpm
	Square Tank	ENE 10 storm drain system	10 gallons (180 gallons)	10 gpm to 20 gpm
	Transformer #1	ESE to storm drain system	10 gallons (240 gallons)	0.1 to 1 gpm
	Transformer #2	Within Clinker Silo Building	10 gallons (194 gallons)	0.1 to 1 gpm
,	Transformer #3	Within concrete berm	10 gallons (211 gallons)	0.1 to 1 gpm
	Transformer #4	Within concrete berm	10 gallons (211 gallons)	0.1 to 1 gpm

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			Estimated Potential Volume Released	Estimated Spill
Potential Event	Equipment	Spill Direction	Minimum (Maximum)	Rate
	Transformer #5	Within concrete berm	10 gallons (162 gallons)	0.1 to 1 gpm
	Transformer #6	Within concrete berm	10 gallons (169 gallons)	0.1 to 1 gpm
	Transformer #7	Within concrete berm	10 gallons (169 gallons)	0.1 to 1 gpm
	Transformer #8	Within concrete berm	10 gallons (194 gallons)	0.1 to 1 gpm
	Transformer #9	South to storm drain system then to oil/water separator	10 gallons (308 gallons)	0.1 to 1 gpm
Container overfill	Fuel Storage AST	Inside containment, or to storm drain system	0.1 gallon (5 gallons)	Gradual loss – could be detected and stopped
	Grinding Aid AST	Inside containment	. 0.1 gallon (5 gallons)	Gradual loss – could be detected and stopped
	Dock Crane Hydraulic Reservoir	Into spill pan or onto ground	0.1 gallon (5 gallons)	Gradual loss – could be detected and stopped
	Hydraulic Reservoir (Philadelphia)	Within building	0.1 gallon (5 gallons)	Gradual loss – could be detected and stopped
	Square Tank	Within building	10 gallons (740)	10 gpm to 20 gpm



Potential Event	Egulpment	Spill Direction	Estimated Potential Volume Released Minimum (Maximum)	Estimated Spill Rate
	Used oil ASTs (2)	Inside containment, or to storm drain system	10 gallons (1,200 gallons)	10 gpm to 20 gpm
	Used oil ASTs (2)	Inside containment, or to storm drain system	10 gallons (1,200)	10 gpm to 20 gpm
	Portable Fuel Tank	Location dependent, onto ground	10 gallons (300 gallons)	10 gpm to 20 gpm
	Portable Fuel Tank	Location dependent, onto ground	10 gallons (300)	10 gpm to 20 gpm
	Square Tanks (4)	Within building	10 gallons (2,000 gallons)	10 gpm to 20 gpm
	Square Tanks (4)	Within building	10 gallons (2,000)	10 gpm to 20 gpm
	Diesel Emergency Generator Tank	Inside containment, or to storm drain system	10 gallons (400 gallons)	10 gpm to 20 gpm
	Diesel Emergency Generator Tank	Inside containment, or to storm drain system	10 gallons (400)	10 gpm to 20 gpm
Leaking pipe, valve, or fitting	Dock Crane Hydraulic Reservoir	Within containment pan. If unattended, into the Duwamish River	I gallon (25 gallons)	0.1 gpm to 2.5 gpm
Container Unloading: Rupture or drop	Portable Fuel Tank	Location dependent, onto ground	I gallon (365 gallons)	Gradual to instantaneous



Potential Event	Equipment	Spill Direction	Estimated Potential Volume Released Minimum (Maximum)	Estimated Spill Rate
Release in the Fuel AST unloading area berm	Tanker Truck or hose	Within containment berm towards low point.	1,300 gallons	1 to 20 gpm
Release of fuel during transfer of portable AST to the barge	Portable tank	Onto the water or barge below	1 to 300 gallons	1 to 300 gpm



FIGURES



APPENDIX A SPCC PLAN REQUIREMENTS AND THEIR LOCATIONS IN THIS SPCC PLAN



SPCC PLAN CROSS-REFERENCE AND COMPLETENESS CHECKLIST (UPDATED SEPTEMBER 2002)

SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN REQUIREMENTS AND THEIR LOCATIONS IN THIS SPCC PLAN 40 CFR Location in Description this SPCC Section Plan Subpart A—Applicability, Definitions, and General Requirements For All Facilities and All Types of Oils § 112.1 through 112.7 112.1 General applicability establishing procedures, methods and equipment 1.0 and other requirements for equipment to prevent the discharge of oil from non-transportation-related onshore and offshore facilities into or upon the navigable waters of the US or adjoining shorelines. 112.3(a) - (c)Requirements for preparation and implementation of SPCC Plans in 1.0 accordance with 40 CFR 112.7 and any other applicable section of 40 CFR 112. Obtain Professional Engineer's review and certification. P.E. Certifies 112.3(d) Front of the SPCC Plan was prepared in accordance with good engineering Plan. practice, including consideration of applicable industry standards, and 1.0. and 4.4.1 with the requirements of the SPCC rule. 112.3(e) Maintain copy of SPCC Plan on-site if facility is normally attended at 1.2 least 4 hours per day; otherwise, maintain it at nearest field office. Also, make Plan available to USEPA RA or other local agency inspector for on-site review during normal working hours. 112.4(a) - (c)When discharge >1,000 gallons of oil in a single discharge as 4.1.2 described in 40 CFR 112.1(b), or (2) discharge more than 42 U.S. gallons of oil as described in 40 CFR 112.1(b), in each of two discharges within any 12-month period, submit, within 60 days, a report to regional EPA and to the state agency in charge of oil pollution control activities, State Water Board. 112.5(a) Amend SPCC Plan, within 6 months, whenever there is change in 4.4.1 facility design, construction, operation or maintenance, which materially affects facility's potential for discharge.



	SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN REQUIREMENTS AND THEIR LOCATIONS IN THIS SPCC PLAN			
40 CFR Section	Description	Location in this SPCC Plan		
112.5(b)	Perform a review and evaluation of SPCC Plan at least once every five years. The owner/operator must document completion of the review and evaluation, and must sign a statement as to whether he will amend the SPCC Plan. The following will suffice: "I have completed review and evaluation of the SPCC Plan for (name of facility) on (date), and will (will not) amend the Plan as a result."	Front of Plan and 4.4.1		
112.51	Obtain Professional Engineer's certification for any technical amendments in accordance with 112.3(d).	4.4.1		
§ 112.7 Gene	eral requirements for Spill Prevention, Control, and Countermeasure I	Plans		
112.7	If you are the owner or operator of a facility subject to this part you must prepare a Plan in accordance with good engineering practices. The Plan must have the full approval of management at a level of authority to commit the necessary resources to fully implement the Plan. You must prepare the Plan in writing.	Front of Plan		
112.7	If you do not follow the sequence specified in this section for the Plan, you must prepare an equivalent Plan acceptable to the Regional Administrator that meets all of the applicable requirements listed in this part, and you must supplement it with a section cross-referencing the location of requirements listed in this part and the equivalent requirements in the other prevention plan. If the Plan calls for additional facilities or procedures, methods, or equipment not yet fully operational, you must discuss these items in separate paragraphs, and must explain separately the details of installation and operational start-up. As detailed elsewhere in this section, you must also:	App. A – this checklist		
112.7(a)(1)	Include a discussion of your facility's conformance with the requirements listed in 40 CFR 112.7.	1.0 and Tables 1 and 2		



SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN REQUIREMENTS AND THEIR LOCATIONS IN THIS SPCC PLAN

40 CFR Section	Description	Location in this SPCC Plan
112.7(a)(2)	Comply with all applicable requirements listed in this part. Your Plan may deviate from the requirements in paragraphs (g), (h)(2) and (3), and (i) of this section and the requirements in subparts B and C of this part, except the secondary containment requirements in paragraphs I and (h)(1) of this section, and §§ 112.81(2),112.81(11), 112.91(2), 112.101, 112.121(2), 112.121(11),112.131(2), and 112.141, where applicable to a specific facility, if you provide equivalent environmental protection by some other means of spill prevention, control, or countermeasure. Where your Plan does not conform to the applicable requirements in paragraphs (g), (h)(2) and (3), and (i) of this section, or the requirements of subparts B and C of this part, except the secondary containment requirements in paragraphs I and (h)(1) of this section, and §§ 112.81(2), 112.81(11), 112.91(2), 112.101, 112.121(2), 112.121(11), 112.131(2), and 112.141, you must state the reasons for nonconformance in your Plan and describe in detail alternate methods and how you will achieve equivalent environmental protection. If the Regional Administrator determines that the measures described in your Plan do not provide equivalent environmental protection, he may require that you amend your Plan, following the procedures in § 112.4(d) and (e).	The whole Plan
112.7(a)(3)	Describe in your Plan the physical Jayout of the facility and include a facility diagram, which must mark the location and contents of each container. The facility diagram must include completely buried tanks that are otherwise exempted from the requirements of this part under § 112.1(d)(4). The facility diagram must also include all transfer stations and connecting pipes. You must also address in your Plan:	2.0 and Figures 1 and 2
	(i) The type of oil in each container and its storage capacity;	Table I
	(ii) Discharge prevention measures including procedures for routine handling of products (loading, unloading, and facility transfers, etc.);	3.0 and 3.2.3
	(iii) Discharge or drainage controls such as secondary containment around containers and other structures, equipment, and procedures for the control of a discharge;	Table 2



SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN REQUIREMENTS AND THEIR LOCATIONS IN THIS SPCC PLAN Location in 40 CFR Description this SPCC Section Plan (iv) Countermeasures for discharge discovery, response, and cleanup 3.0 and (both the facility's capability and those that might be required of a Table 2 contractor); 112.7(a)(3)(v) Methods of disposal of recovered materials in accordance with 3.2.4.1 (continued) applicable legal requirements; and (vi) Contact list and phone numbers for the facility response App. F coordinator, National Response Center, cleanup contractors with whom you have an agreement for response, and all appropriate Federal, State, and local agencies who must be contacted in case of a discharge as described in § 112.1(b). 4.1.1 112.7(a)(4) Unless you have submitted a response plan under 40 CFR 112.20, provide information and procedures in your SPCC Plan to enable a person reporting a discharge to relate information on the exact address or location and phone number of the facility.... 112.7(a)(5)3.2.4.2 Unless you have submitted a response plan under 40 CFR 112.20, organize portions of the SPCC Plan describing procedures you will use when a discharge occurs in a way that will make them readily usable in an emergency, and include appropriate supporting materials as appendices. 112.7(b) Where experience indicates a reasonable potential for equipment 2.5 and failure (such as loading or unloading equipment, tank overflow, Table 2 rupture, or leakage, or any other equipment known to be a source of a discharge), include in your Plan a prediction of the direction, rate of flow, and total quantity of oil which could be discharged from the facility as a result of each type of major equipment failure.



SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN REQUIREMENTS AND THEIR LOCATIONS IN THIS SPCC PLAN

40 CFR Section	Description	Location in this SPCC Plan
112.7I(1)	Provide appropriate containment and/or diversionary structures or equipment to prevent discharged oil from reaching navigable watercourse. The entire containment system, including walls and floor, must be capable of containing oil and must be constructed so that any discharge from a primary containment system, such as a tank or pipe, will not escape the containment system before cleanup occurs. At a minimum, include one of following preventive systems for onshore facilities:	3.1.1
	(i) Dikes, berms or retaining walls:	3.1.1
	(ii) Curbing;	3.1.1
	(iii) Culverts, gutters or other drainage;	NA
	(iv) Weirs, booms or other barriers;	NA
112.7I(1) (continued)	(v) Spill diversion ponds;	NA
	(vi) Retention ponds; and,	NA
	(vii) Sorbent materials.	NA
112.7(d)	When installation of structures or equipment, as outlined in 112.71 and (h)(1) and 40 CFR 112.8I(2), I(11), 112.9I(2), 112.10I, 112.12I(2), 112.12I(11), 112.13I(2) and 112.14I is not practicable, clearly explain why such measures are not practicable; for bulk storage containers,	1.1 and 1.3
	conduct periodic integrity testing of the containers and periodic integrity and leak testing of the valves and piping, unless you have submitted a response plan under 40 CFR 112.20 provide the following in your SPCC Plan:	
	1. Provide an oil spill contingency plan described in 40 CFR 109; and,	NA
	2. Provide a written commitment of manpower, equipment and materials to control and remove harmful quantity of oil discharged.	NA



SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN REQUIREMENTS AND THEIR LOCATIONS IN THIS SPCC PLAN

40 CFR Section	Description	Location in this SPCC Plan
112.7(e)	Conduct inspections and tests required by this part in accordance with written procedures that you or the certifying engineer develop for the facility. You must keep these written procedures and a record of the inspections and tests, signed by the appropriate supervisor or inspector, with the SPCC Plan for a period of three years. Records of inspections and tests kept under usual and customary business practices will suffice for purposes of this paragraph.	3.2.1 and 3.2.2
112.7(f) Pers	onnel, training, and discharge prevention procedures	
112.7(f)(1)	At a minimum, train your oil-handling personnel in the operation and maintenance of equipment to prevent discharges; discharge procedure protocols; applicable pollution control laws, rules, and regulations; general facility operations; and, the contents of the facility SPCC Plan.	4.3
112.7(f)(2)	Designate a person at each applicable facility who is accountable for discharge prevention and who reports to facility management.	Front of Plan and 4.3
112.7(f)(3)	Schedule and conduct discharge prevention briefings for your oil handling personnel at least once a year to assure adequate understanding of the SPCC Plan for that facility. Such briefings must highlight and describe known discharges as described in § 112.1(b) or failures, malfunctioning components, and any recently developed precautionary measures.	4.3
112.7(g) Secu	rity (excluding oil production facilities)	
112.7(g)(1)	Fully fence each facility handling, processing, or storing oil, and lock and/or guard entrance gates when the facility is not in production or is unattended.	3.1.6
112.7(g)(2)	Ensure that the master flow and drain valves and any other valves permitting direct outward flow of the container's contents to the surface have adequate security measures so that they remain in the closed position when in non-operating or non-standby status.	3.2.5



SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN

REQUIREMENTS AND THEIR LOCATIONS IN THIS SPCC PLAN

Location in **40 CFR** Description this SPCC Section Plan 3.2.5 Lock the starter control on each oil pump in the "off" position and 112.7(g)(3)locate it at a site accessible only to authorized personnel when the pump is in a non-operating or non-standby status. 112.7(g)(4)3.2.5 Securely cap or blank-flange the loading/unloading connections of oil pipelines or facility piping when not in service or when in standby service for an extended time. This security practice also applies to piping that is emptied of liquid content either by draining or by inert gas pressure. 3.1.6 112.7(g)(5)Provide facility lighting commensurate with the type and location of the facility that will assist in the: Discovery of discharges occurring during hours of darkness, both by operating personnel, if present, and by nonoperating personnel (the general public, local police, etc.); and

112.7(h)(1)	Where loading/unloading area drainage does not flow into a catchment basin or treatment facility designed to handle discharges, use a quick drainage system for tank car or tank truck loading and unloading areas. You must design any containment system to hold at least the maximum capacity of any single compartment of a tank car or tank truck loaded or unloaded at the facility.	NA
112.7(h)(2)	Provide an interlocked warning light or physical barrier system, warning signs, wheel chocks, or vehicle break interlock system in loading/unloading areas to prevent vehicles from departing before complete disconnection of flexible or fixed oil transfer lines.	NA
112.7(h)(3)	Prior to filling and departure of any tank car or tank truck, closely inspect for discharges the lowermost drain and all outlets of such vehicles, and if necessary, ensure that they are tightened, adjusted, or replaced to prevent liquid discharge while in transit.	3.2.3

(ii) Prevention of discharges occurring through acts of vandalism.

112.7(h) Facility tank car and tank truck loading/unloading rack (excluding offshore facilities)



	PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLEQUIREMENTS AND THEIR LOCATIONS IN THIS SPCC PLAN	AN
40 CFR Section	Description	Location in this SPCC Plan
112.7(i)	If a field-constructed aboveground container undergoes a repair, alteration, reconstruction, or a change in service that might affect the risk of a discharge or failure due to brittle fracture or other catastrophe, or has discharged oil or failed due to brittle fracture failure or other catastrophe, evaluate the container for risk of discharge or failure due to brittle fracture or other catastrophe, and as necessary, take appropriate action.	NA
112.7(j)	In addition to the minimal prevention standards listed under this section, include in your Plan a complete discussion of conformance with the applicable requirements and other effective discharge prevention and containment procedures listed in this part or any applicable more stringent State rules, regulations, and guidelines.	NA
Oils and Gred	equirements for Petroleum Oils and Non-Petroleum Oils, Except Animal Fases, and Fish and Marine Mammal Oils; and Vegetable Oils (Including O Fruits, and Kernels)	
•	Prevention, Control, and Countermeasure Plan requirements for onshore fooduction facilities).	acilities
112.8(a)	Meet the general requirements for the Plan listed under 40 CFR 112.7, and the specific discharge prevention and containment procedures listed in this section (40 CFR 112.8).	1.0 and 3.1.1
112.8(b) Faci	lity Drainage (for onshore facilities, except oil production)	
112.8(b)(1)	Restrain drainage from diked storage areas by valves to prevent a discharge into the drainage system or facility effluent treatment system, except where facility systems are designed to control such discharge. You may empty diked areas by pumps or ejectors; however, you must manually activate these pumps or ejectors and must inspect the condition of the accumulation before starting, to ensure no oil will be discharged.	NA -



SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN REQUIREMENTS AND THEIR LOCATIONS IN THIS SPCC PLAN

40 CFR Section	Description	Location in this SPCC Plan
112.8(b)(2)	Use valves of manual, open-and closed design, for the drainage of diked areas. You may not use flapper-type drain valves to drain diked areas. If your facility drainage drains directly into a watercourse and not into an on-site wastewater treatment plant, you must inspect and may drain uncontaminated retained storm water, as provided in paragraphs I(3)(ii), (iii), and (iv) of this section.	NA
112.8(b)(3)	Design facility drainage systems from undiked areas with a potential for a discharge (such as where piping is located outside containment walls or where tank truck discharges may occur outside the loading area) to flow into ponds, lagoons, or catchment basins designed to retain oil or return it to the facility. You must not locate catchment basins in areas subject to periodic flooding.	NA 3.1.5
112.8(b)(4)	If facility drainage is not engineered as in paragraph (b)(3) of this section, equip the final discharge of all ditches inside the facility with a diversion system that would, in the event of an uncontrolled discharge, retain oil in the facility.	NA 3.1.6
112.8(b)(5)	Where drainage waters are treated in more than one treatment unit and such treatment is continuous, and pump transfer is needed, provide two "lift" pumps and permanently install at least one of the pumps. Whatever techniques you use, you must engineer facility drainage systems to prevent a discharge as described in § 112.1(b) in case there is an equipment failure or human error at the facility.	NA -



SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN REQUIREMENTS AND THEIR LOCATIONS IN THIS SPCC PLAN Location in 40 CFR Description this SPCC Section Plan 112.81 Bulk Storage Containers (for onshore facilities, except oil production) 112.8I(1) 3.1.2 Do not use a container for the storage of oil unless its material and construction are compatible with the material stored and conditions of storage such as pressure and temperature. 112.81(1) Construct all bulk storage container installations so that you provide a 3.1.1 secondary means of containment for the entire capacity of the largest and single container and sufficient freeboard to contain precipitation. You Table 2 must ensure that diked areas are sufficiently impervious to contain discharged oil. Dikes, containment curbs, and pits are commonly employed for this purpose. You may also use an alternative system consisting of a drainage trench enclosure that must be arranged so that any discharge will terminate and be safely confined in a facility catchment basin or holding pond. 112.81(3) Not allow drainage of uncontaminated rainwater from the diked area NA into a storm drain or discharge of an effluent into an open watercourse, 3.2.4 lake, or pond, bypassing the facility treatment system unless you: (i) Normally keep the bypass valve sealed closed. 3.2.4 (ii) Inspect the retained rainwater to ensure that its presence will not 3.24 cause a discharge as described in § I12.1(b). (iii) Open the bypass valve and reseal it following drainage under 3.2.4 responsible supervision; and (iv) Keep adequate records of such events, for example, any records 3.2.4 required under permits issued in accordance with §§ 122.41(j)(2) and 122.41(m)(3). 112.81(4) Protect any completely buried metallic storage tank installed on or after NA January 10, 1974 from corrosion by coatings or cathodic protection 2.3.1.2 compatible with local soil conditions. You must regularly leak test such completely buried metallic storage tanks.



SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN REQUIREMENTS AND THEIR LOCATIONS IN THIS SPCC PLAN

40 CFR Section	Description	Location in this SPCC Plan
112.81(5)	Do not use partially buried or bunkered metallic tanks for the storage of oil, unless you protect the buried section of the tank from corrosion. You must protect partially buried and bunkered tanks from corrosion by coatings or cathodic protection compatible with local soil conditions.	NA – 2.3.1.2
112.81(6)	Test each aboveground container for integrity on a regular schedule, and whenever you make material repairs. The frequency of and type of testing must take into account container size and design (such as floating roof, skid-mounted, elevated, or partially buried).	3.2.2
	You must combine visual inspection with another testing technique such as hydrostatic testing, radiographic testing, ultrasonic testing, acoustic emissions testing, or another system of nondestructive shell testing.	3.2.2.1
	You must keep comparison records and you must also inspect the container's supports and foundations.	3.2.2.1
	In addition, you must frequently inspect the outside of the container for signs of deterioration, discharges, or accumulation of oil inside diked areas.	3.2.2.1
	Records of inspections and tests kept under usual and customary business practices will suffice for purposes of this paragraph.	3.2.2.1
112.81(7)	Control leakage through defective internal heating coils by monitoring the steam return and exhaust lines for contamination from internal heating coils that discharge into an open watercourse, or pass the steam return or exhaust lines through a settling tank, skimmer, or other separation or retention system.	NA – 2.3.5
112.81(8)	Engineer or update each container installation in accordance with good engineering practice to avoid discharges. You must provide at least one of the following devices:	3.1.1



40 CFR Section	Description	Location in this SPCC Plan
	(i) High liquid level alarms with an audible or visual signal at a constantly attended operation or surveillance station. In smaller facilities an audible air vent may suffice.	3.1.1.1, 3.1.4, and 3.2.2.1
	(ii) High liquid level pump cutoff devices set to stop flow at a predetermined container content level.	NA
	(iii) Direct communication between tank gauger and pumping station.	NA
	(iv) Fast response system for determining liquid level of each bulk storage container such as digital computers, telepulse, or direct vision gauges. If you use this alternative, a person must be present to monitor gauges and the overall filling of bulk storage containers.	3.2.3
	(v) You must regularly test liquid level sensing devices to ensure proper operation.	3.2.2.1 and 3.2.2.2
112.8I(9)	Observe effluent treatment facilities frequently enough to detect possible system upsets that could cause a discharge as described in § 112.1(b).	NA
112.8I(10)	Promptly correct visible discharges which result in a loss of oil from the container, including but not limited to seams, gaskets, piping, pumps, valves, rivets, and bolts. You must promptly remove any accumulations of oil in diked areas.	3.2.1
112.8I(11)	Position or locate mobile or portable oil storage containers to prevent a discharge as described in § 112.1(b). You must furnish a secondary means of containment, such as a dike or catchment basin, sufficient to contain the capacity of the largest single compartment or container with sufficient freeboard to contain precipitation.	2.3.4, 3.1.1.2, and Table 2



SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN REQUIREMENTS AND THEIR LOCATIONS IN THIS SPCC PLAN Location in 40 CFR Description this SPCC Section Plan NA 112.8(d)(1)Provide buried piping that is installed or replaced on or after August 16, 2002, with a protective wrapping and coating. You must also 3.2.2.3 cathodically protect such buried piping installations or otherwise satisfy the corrosion protection standards for piping in part 280 of this chapter or a State program approved under part 281 of this chapter. If a section of buried line is exposed for any reason, you must carefully inspect it for deterioration. If you find corrosion damage, you must undertake additional examination and corrective action as indicated by the magnitude of the damage. 112.8(d)(2)Cap or blank-flange the terminal connection at the transfer point and NA mark it as to origin when piping is not in service or is in standby 3.2.2.3 service for an extended time. 112.8(d)(3)Properly design pipe supports to minimize abrasion and corrosion and 3.1.2 allow for expansion and contraction. 112.8(d)(4)Regularly inspect all aboveground valves, piping, and appurtenances. NA During the inspection you must assess the general condition of items, 3.2.2.3 such as flange joints, expansion joints, valve glands and bodies, catch pans, pipeline supports, locking of valves, and metal surfaces. You must also conduct integrity and leak testing of buried piping at the time of installation, modification, construction, relocation, or replacement. 112.8(d)(5)Warn all vehicles entering the facility to be sure that no vehicle will NA endanger aboveground piping or other oil transfer operations. 3.2.2.3



SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN REQUIREMENTS AND THEIR LOCATIONS IN THIS SPCC PLAN

40 CFR Section	Description	Location in this SPCC Plan	
Section Appendix C to Part 112	Appendix C to Part 112—Substantial Harm Criteria Section 2.1 A non-transportation-related facility with a total oil storage capacity greater than or equal to 42,000 gallons that transfers oil over water to or from vessels must submit a response plan to EPA. Section 2.2 Any facility with a total oil storage capacity greater than or equal to 1 million gallons without secondary containment sufficiently large to contain the capacity of the largest aboveground oil storage tank within each area plus sufficient freeboard to allow for precipitation must submit a response plan to EPA. Secondary containment structures that meet the standard of good engineering practice for the purposes of this part include berms, dikes, retaining walls, curbing, culverts, gutters, or other drainage systems. Section 2.3 A facility with a total oil storage capacity greater than or equal to 1 million gallons must submit its response plan if it is located at a distance such that a discharge from the facility could cause injury (as defined at 40 CFR 112.2) to fish and wildlife and sensitive environments. For further description of fish and wildlife and sensitive environments, see Appendices I, II, and III to DOC/NOAA's "Guidance for Facility and Vessel Response Plans: Fish and Wildlife and Sensitive Environments" (59 FR 14713, March 29, 1994) and the applicable Area Contingency Plan. Facility owners or operators must determine the distance at which an oil spill could cause injury to fish and wildlife and sensitive environments using the appropriate formula presented in Attachment C-III to this appendix or a comparable—formula.	****	
:	Section 2.4 A facility with a total oil storage capacity greater than or equal to 1 million gallons must submit its response plan if it is located at a distance such that a discharge from the facility would shut down a public drinking water intake, which is analogous to a public water system as described at 40 CFR 143.21.		





This SPCC Plan Cross-Reference and Completeness Checklist were completed for non-transportation related facilities. The following SPCC regulations do not apply to this facility:

40 CFR § 112.9 Spill Prevention, Control, and Countermeasure Plan requirements for onshore oil production facilities;

40 CFR § 112.10 Spill Prevention, Control, and Countermeasure Plan requirements for onshore oil drilling and workover facilities;

40 CFR § 112.11 Spill Prevention, Control, and Countermeasure Plan requirements for offshore oil drilling, production, or workover facilities; and,

40 CFR § 112.12 Spill Prevention, Control, and Countermeasure Plan requirements for onshore facilities (excluding production facilities). Subpart C—Requirements for Animal Fats and Oils and Greases, and Fish and Marine Mammal Oils; and for Vegetable Oils, including Oils from Seeds, Nuts, Fruits, and Kernels.



APPENDIX B SUBSTANTIAL HARM DETERMINATION FORM



USEPA CERTIFICATION OF SUBSTANTIAL HARM DETERMINATION FORM

Facility Name: Ash Grove Cement Company

Facility Address: 3801 East Marginal Way South, Seattle, Washington 98134

Does the facility transfer oil over water to or from vessels and does the facility have a total oil storage capacity greater than or equal to 42, 000 gallons?

ŒS ■ NO

Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and does the facility lack secondary containment that is sufficiently large to contain the capacity of the largest aboveground oil storage tank plus sufficient freeboard to allow for precipitation within any aboveground storage tank area?

ES ■ NO

Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance (as calculated using an appropriate formula) such that a discharge from the facility could cause injury to fish and wildlife and sensitive environments?

YES NO

Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance as calculated using an appropriate formula such that a discharge from the facility would shut down a public drinking water intake or public water system?

YES ■ NO

Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and has the facility experienced a reportable oil spill in an amount greater than or equal to 10,000 gallons within the last 5 years?

YES ■ NO

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.



	Plant Manager	
Signature	Title	
Craig Puljan		
Name (Printed)	Date	



APPENDIX C FACILITY INSPECTION REPORT AND CHECKLIST



FACILITY INSPECTION REPORT AND CHECKLIST

INSPECTOR:	DATE:	TIME:
Instructions: This check sheet is to be used during program	n review proces	s of the SPCC.
Drainage (Daily/Monthly Schedule)	Comments	
No noticeable oil or sheen on runoff?		
Containment area drainage valves are closed and locked?		
No visible oil sheen in containment area?		
No standing water in containment area?		
Valves, flanges, and gaskets are free from leaks.		
Containment walls are intact?	·	
Oil-Filled Electrical Equipment (Monthly Schedule)		
Equipment surfaces are checked for signs of leakage?		· · · · · · · · · · · · · · · · · · ·
Equipment in good condition?		
Bolts, rivets, or seams are not damaged?		
Equipment foundation is intact?		
Level gauges and alarms working properly?		
Vents are not obstructed?		
ASTs (Daily/Monthly Schedule)	-	
Tank surfaces (both primary and secondary) are checked for signs of leakage?		
Tank (both primary and secondary) in good condition?		
Bolts, rivets. or seams are not damaged?		
Tank foundation is intact?		
Monthly- Level gauges and alarms working properly?		
Vents are not obstructed?		
Daily Lighting is working properly?		
Training (Annual Schedule)		
Spill prevention briefing held?		
Training records are in order?		

NOTES:

A "0" answer to any item will require corrective action. Initial and date the follow-up actions. X=Sansfactory. N/A=Not Applicable; 0=Repair/Correction Necessary; C=See comment section



The inspections required by the SPCC Plan are conducted under several separate programs at the Facility. These inspection programs and the SPCC Plan areas they cover are listed below.

Issues Inspected	Frequency	Responsible Party
Drainage	Daily	
Aboveground storage tank (AST) Tank General	Daily/Monthly	
Site oil storage area and drainage areas	Monthly	
AST and UST Tanks mechanical	Annually	
Training	Annually	



APPENDIX D MASTER REPORTING FORM



MASTER SPILL REPORTING FORM

Complete each section in detail for each agency called.

	Coast Guard National Response Center: 800-424-8802 / WA Dept of Mgmt 24 Hour Teation: 800-258-5990			
1.	Tumber called Agency			
2.	Details of the release or threatened release			
Ex	t location			
	• Date			
	• Time			
	Duration			
3.	lame of the person reporting to the Agency			
4.	Iazardous materials involved (chemical name)			
•	s this material extremely hazardous? If it's diesel or transformer oil, the answer is no.			
5.	stimate of the quantity of hazardous material involved gallons/pounds (circ	le		
6.	otential hazard presented by the hazardous material, if known			
7.	Medium or media impacted? Soil, storm drain, surface water, ground water? (circle one)			
8.	Description of what happened			
9.	roper precautions to take			
10.	nown or anticipated health risks			
11.	ame and phone number of a person at the Facility if the Agency needs more information			
Nai	Phone Number			



APPENDIX E

FUEL TRANSFER/EQUIPMENT MONITORING PROCEEDURES



DIESEL TRANSFERRING PROCEDURES

Upon delivery of diesel fuel to be stored in the 1000-gallon tank, the company representative will meet and escort the delivery truck to the tank.

- 1. Prior to transferring the diesel to the tank the following action must be taken by the company representative:
 - A. Inspect the tank for evidence of leaks or corrosion and the spill containment area for spills and cracks.
 - 1. Notify the Control Room x211 (radio Unite 1) if a spill or leak is discovered, do not transfer delivery to tank.
 - B. Inspect the spill containment for cracks or other damage that could result in failure of the containment.
 - 1. Notify the Control Room (radio Unit 1) if any deformation is found. Do not transfer delivery to tank.
 - C. Insure that spill clean up material is on hand in the Old Raw Mill Building and in the delivery truck.
 - D. Inspect the delivery hose to insure that it is free of obvious defects and be familiar with the pump controls on the truck in order to stop fuel transfer in case of an emergency.
- 2. During transfer operations, the company representative and the delivery truck driver will be present.
- 3. In case of a spill:
 - A. Stop transfer of fuel,
 - B. Notify the Control Room (radio Unit 1)
 - C. Use spill cleanup material to contain product spill from spreading.
 - D. If needed, additional spill kits are located:
 - 1. Group II silos at base of office stairs.
 - 2. Raw Mill Hydraulic Building.
 - 3. Receiving Dock.



- 4. Finish Mill, SW corner first floor.
- 5. Old Raw Mill Building.
- 6. Burner Building NW corner ground floor.
- 7. Used Oil Storage Tanks.



DOCK CRANE HYDRAULIC OIL SPILL PROCEDURES

- 1. Prior to crane operation the following must be taken by the operator:
 - A. Inspect the tank, pump and hose and hose connections for signs of leaks or damage. Do not operate if any defect is found, notify your supervisor.
 - B. Inspect the reservoir basin for rainwater accumulation.
 - 1. Remove clean water by pumping into a clean container. Transport and discharge into the storm system.
 - 2. If water is contaminated, remove oil with skimmer pads, prior to pumping.
 - C. Insure that spill clean up material is on hand on the dock.
- 2. In case of a spill:
 - A. Turn off the hydraulic pump,
 - B. Notify the Control Room x211 (radio Unit 1)
 - C. Use spill cleanup material to contain product spill from spreading.
 - D. If needed, additional spill kits are located:
 - 8. Group II silos at base of office stairs.
 - 9. Raw Mill Hydraulic Building.
 - 10. Receiving Dock.
 - 11. Finish Mill, SW corner first floor.
 - 12. Old Raw Mill Building.
 - 13. Burner Building NW corner ground floor.
 - 14. Used Oil Storage Tanks.



RAW MILL HYDRAULIC OIL SPILL PROCEDURES

- 1. In case of a spill:
 - A. Notify the Control Room x211 (radio Unit 1)
 - B. Use spill cleanup material, soil or other readily available material to contain product spill from spreading.
 - C. If needed, additional skill kits are located:
 - 15. Group II silos at base of office stairs.
 - 16. Raw Mill Hydraulic Building.
 - 17. Receiving Dock.
 - 18. Finish Mill, SW comer first floor.
 - 19. Old Raw Mill Building
 - 20. Burner Building NW corner ground floor.
 - 21. Used Oil Storage Tanks.



USED OIL HOLDING TANK PROCEDURES

- 1. Prior to transporting used oil to the holding tank the following action must be taken by the operator:
- B. Inspect the transfer container for defects such as corrosion or cracks, which may allow material to leak. All transfer containers must be in good condition.
- C. Only used oil or lubricants that have been approved as "spec oil" may be transferred to the holding tanks.
- 2. Prior to transferring used oil into the tank the following action must be taken by the operator:
 - A. Inspect the tank for evidence of leaks and corrosion.
 - B. Inspect the delivery hose, pump and connections for defects. Report any found to your supervisor.
 - C. Insure that holding tank spill kit is on hand and is ready for use.
 - D. Insure that holding tank has sufficient space to contain the additional oil to prevent overfilling.
- 3. In case of a spill:
 - A. Stop transfer
 - B. Notify the Control Room (radio Unit 1)
 - C. Use material in the spill kit to prevent spill from spreading.
 - D. If needed, additional skill kits are located:
 - 1. Group II silos at base of office stairs.
 - 2. Raw Mill Hydraulic Building.
 - 3. Receiving Dock.
 - 4. Finish Mill, SW corner first floor.
 - 5. Old Raw Mill Building.
 - 6. Burner Building NW corner ground floor.



7. Used Oil Storage Tanks.



PORTABLE TANK FUEL SPILL PROCEDURES

- 1. Prior to moving the tank the following action must be taken by the lift truck operator:
 - A. Inspect the tank for evidence of leaks or corrosion.
 - B. Inspect the delivery hose, pump and connections for defects. Report any found to your supervisor.
 - C. Insure that tank spill kit is on hand and is transported along with the tank.
- 2. This tank is not to be stored:
 - A. Within 250 feet of the waterfront,
 - B. Near the storm drains at the north west corner of the Clinker Storage silos (see site map for drain locations)
 - C. Near the wash rack basin near the Group II silos.
- 3. In case of a spill:
 - A. Stop transfer.
 - B. Notify the Control Room x211 (radio Unit 1)
 - C. Use material in the spill kit to prevent spill from spreading.
 - D. If needed, additional spill kits are located:
 - 1. Group II silos at base of office stairs.
 - 2. Raw Mill Hydraulic Building.
 - 3. Receiving Dock
 - 4. Finish Mill, SW corner first floor
 - 5. Old Raw Mill Building.
 - 6. Burner Building NW corner ground floor
 - 7. Used Oil Storage Tanks



APPENDIX F INTERNAL/EXTERNAL EMERGENCY CONTACTS & NOTIFICATION PROCEDURE



ADDITIONAL AGENCY NOTIFICATION 24-HOUR EMERGENCY CONTACT PHONE NUMBERS

In case of a spill threatening the waterway:

NRC Environmental Services (contractor):

1.800.337.7455

U.S. Coast Guard National Response Center:

1.800.424.8802

WA Department of Emergency Management 24 Hour Notification: 1.800.258.5990

In case of a spill threatening the METRO sewer system:

METRO, West Point Treatment Plant 24 Hour Notification: 206.689.3801

1 141 11	iventory All - AGC Storeroom Information	<u> </u>			· 	!	<u> </u>	ļ		ļ			
						i	 			ł ·		 	-
ventory Item		Purchase		Quantil		Unit	Extended	Primary	Alternate.	Ī	ļ		
umber	Name	Catalog	Ouantity O/H 1		Unit cost, 1		Value_1	Location	Storage	Min_1	Min_2	Max_1	Max_2
	Brick, Magkor B, 220mm lhk x 198mm lng, VDZ Shape, p/n B-322 - Refram			each		each		04-Floor 02-02D-06	 -		each		each
	Valve, Relict, 3-1/2", S2. (for FM Lift Lube Pump), p/n R6701-3-1/2S - Haski Circuit Board, I/O, 115 VAC; p/n 115832 - CED	100044		each	Annual Contract of the contrac	each		02-02D-05			each		each
100045	*Aupture Disc. (pkg=6 ea). p/n 509-297-000 - Trabon - Lubriquip	100045 100046		each	637.50	each		02-02D-03			each		each
	Switch Assy, (for Beck Actuator), p/n 20-3200-04 - Beck	100056		ieach		each		02-08D-06	}		each		each
	FUSE 200A 500V SEMICOND FULLER	100056		each		each		U2-03D-08	 		each		Duact
	Universal Flow Indicator, 0-3 gpm, L/H, (for, Raw Mill Lube Room), p/n 8943	100182		each		each)		02-04D-02	 		each) ead
100102	*Gasket, Discharge Port/Check Valve, p/n D1605 - Quincy	100102		each		each		02-0-0-02 02-Fence	· 		each		eac
	"Valve. Pop-Off, set 125 psi, p/n FIG112C 3/8" - Kingston	100227		each		leach		02-02C-05			each		eac
	Gate Valve Lockout, Fits Valve Handle 2-1/2 to 5" Dia, Color Red. p/n. Grai	100227		each		each		01-03B-05	 		each		eac
	Output Modure SLC500, 10-250 VAC, 50/60/Hz, 10-125 VOC, p/n 1746-OW			each	258.00			NWL	 		each		eac
100212	*Valve, Check / Breather, 3/4* npt, p/n GSP 3/4* - Stoan	100272		each		each		0S-0SC-118	ļ		each		eac
100200	Shell, Filter, Coalescing, p/n 40605 - Finite	100283		each		each		02-02C-02	·		each):eac
	Tach Loss, PCB Assy, p/n 102831 - Schenck	100203		each		each		NWL			each		Jeac
	Idler, Can, Replacement Roll, Rubber Impact, 24" Bell, 5" x 9" (actual 5" x 8			each		each		NWL	· · · · · · · · · · · · · · · · · · ·		each		рево
1(Y)/133	Bearing, Ball, 35mm Bore, p/n 6307 - SKF / p/n 810-987-042 - Fuller	100333		each		l each		NWL			leach		Deac
100334	Computer Logic Board (Rev. 1), p/n HC-CI/O-1B - Alimak	100338		each		each		NWL		T	each		Dead
1003330	Helay, Control, 120vac / 60 hz, p/n 700-P400A1 - Allen-Bradley	100339	Administration 2011 1 1 2 44 14	each		each		NWL	 		each		Dead
100355	Positioner, Electro-Preumatic, p/n NE724/L - Neles-Jamesbury	100339		each	·	each		02-14D-06	 		each) eac
100301	Module, 32 input, 85-138 vac, p/n 1771-IAN - Allen-Bradley	100398		each		each		NWL		·	each		0 ear
	"Grease, MOLUB-ALLOY (440.0, (pail+5 gal)	100336		each		each		08-01A-01			each	11	0 eac
	*Filter, Ultra-C, Color Charge Carriage, p/n U203	100463	·	each		each		02-02C-05			each		Оелс
100464	REPELL, WATER REPELLANT DRUMMOND	100464		leach		each		02-06A-04	01-01C-09		each		0 eac
		100468		ieach		each		08-01A-02	101-016:08		each		0 eac
	Filter, Air, Element - Universal / p/n ZN81-1207 - Savemore			each		each		04-01B-04	Applied Ind		each		Olead
	*Motor, Electric, 5 hp, 1800 rpm, 1847 frame, (New), 460V, 6 fla, 3 ph, 1E/ *FILTER ELEMENT, AIR FOR THE FINISH MILL OLUTCH CO					2 oach		02-05A-07	Applied IIIO		each		O cac
***				each		Deach		02-11C-03	- 		each		Olead
	Relay, K7 Signal, 115 vac, p/n DEL166 -	100510		each				03-HAW	- 		each		O eac
	Segment, Louver Ring, (set-R each), p/n 730-90-4-3859-01 - Fuller	100530		each		each		04-06B-06	·		each		Olead
	*BAG, D/C 30# CELLULOSE FIBER FILTER NO, SW 40 DICALITE	100533		each		3 each					each		0 eac
	PCB, (for Alirnak Elevator),	1		each		jeach .		NWL	. 1.57				0 ea
	Probe, Motion, High Temperture, p/n 92100000, (old 4 MSP-3) - Siemens-) each		Beach		02-130-07	 -		each		O eac
	Takeup Assy . 9 Frame, w/ 1-7/16* Standard Duty Ball Bearing, p/n NT3-L			each		oleach		02-12B-02			each		O ea
	Packing, Shalt, (for C-300 Compressor), p/n - Fuller	100599		each)'each		02-07B-04	ļ		each		() ea
	Nut. Hex, .45FMHN M45-3.0, DIN 934, (for Hammer Crusher), p/n 7.000018			each		4 each		04-03E-03					ő ea
	Thermocouple & Well Assy., Complete, T/C, (for 111 thru Ti9), p/n MTKMI) each		Beach		02-13A-01			each		0 ea
	Hammer Boll. (for Hammer Crusher), dwg 3.063866, p/n 467548 - Fuller	100651		each		Bleach		04-03E-03			each		0 ea
	HELAY BOARD AB	100664		each		5 each		5 02-09A-06					0 ea
	PUMP, GEAR, SUNDSTRAND RUCKER	100672		each		1 each		1 02-10B-03			Dieach		U ea
	"Mounting Flange, (for Sampler), 4-7/16" dia x 1-1/2" wide, Drawing Supplie			each		7 each		7 02-02C-06			each		
	Inlet Ring Segments, Tall Ring, (Kiln Seal), Material Heat Resistant, Cast S			Peach		0 each		0 04-02E-03	104-02E-04		each		Ojea
	Circuit Breaker, 600A, MC, p/n MDS3800F - Cutter-Hammer / p/n 25103-45) each		0 each		002-14D-06	_		each		0 ea
	*Rotter (20g Assy , p/n ABC 507 - W.W.Sly	100740		Jeach		4 each		02-07D-05			leach		0 ea
	PERMALAST FILT 14 X 30 X 5 FULLER	100752		each		0 each		0,03-08C-03	_		each		(i ea
	PRE-AMP RMA-2 MOTION SENSING ANSI 5	100753		Jeach		0 cach		0.02-13A-06			Oleach		() ea
	Seal Chamber Cover, (for 8° FK Cement Pump), p/n 116-10-6-2624-00 - Ft			Jeach		Oeach		0.03-068-04			0 each		0 eac
	Hose, Flex Air Line, (for FM Clurch), p/n H06910N 610 108.16" - Fittings Inc	100760		each		5 each		6 02-02C-03			0 each		0 ca
100783	Liner Boll, (for Whizzer Cone), p/n T-467 - CE Haymond	10078.	i 285.00	Deach	3.7	1léach	1 1056,29	9102-060-00	_i] ().0(Deach	0,0	0 ea

100000 Kill Baharid Marri Vatas Balancid applica 200 - 1041 1 0	1000001	1.00	04.00	24 25 25 25 25	0.00	Carlot T	0.001-0-0-
100800 Kit, Rebuild. (for: Valve, Solenoid, 120V, 0-300 psi, 3/4" ript, 2 way, Water, c	100800	1 00 each	81 83 each	81.83 02-06D-05		cach	0.00 each
100835 Gear Shaft, 5° dia x 58-1/16° oal w/ sq ends, 1141 Steet, (for SD-90 Gearbo 100846 GRICUIT BREAKER, 30A WHS	100835	0 00 each	2340 00 each	0.00 NWL) each	
	100846	2.00 cach	0 00 each	0 00 02-08B-03		each each	0.00 each
100850 Sensor, AC Current, linput 0.20, Model 420 0.20 - Riley Corporation		1.00 each	202.17 each	202 17 02-14B-03			0.00 each 0.00 each
100883 "Regulator, Constant Prepressure, "OBSOLUTE" NO LONGER AVAILAT 100892 "HOSE, HYD, TRIPLE GATE FEEDER 7" OAL		1 00 each	1201.10 each	1201.09 02-18B-02		leach	
	100892	1 00 each	73.58 each	73 58 02-17A-01		each	0.00 each
100909 FUSE 100A 250V SEMICOND FULLER	100909	3 00 each	31.81 each	95.43 02-03A-02		Deach	0 00 each
100958 Gasket, Flange, 5" dia x 1/16" thk, #150. Red Rubber, Full Face, 8 Holes	100958	1 00 each	5 00 each	5.00 02-Fence) rach	0.00 ench
101057 Filter, Oil Seperator Element, pm 11796 - Conster	101057	0.00 each	110,98 each	0 00 NWL		leach	0.00 each
101061 GLASS/SIGHT GAUGES (REPLACEMENT)	101061	0.00 each	3.05 each	0.00 D2-04C-05		each	0.00 each
101092 SEAL, IDLER WHEEL SHAFT RECLAIMER DRAG CHAIN	101098	0 00 each	0.00 each	0 00 02-04D-09		each	0.00 each
1010/34 Bag, Dust Collector, 5" x 10", " use cal # 109972 " 16 oz Polyester, 20-25	101094	69.00 each	9,48 each	653.78 04-06B-04		each	0.00 each
10) 131 Bearing Sleeve, NI-Hard, 3-7/16' dia, (for Internal Gravity Takeups), p/n 435		2.00 each	186 50 each	373.00 02-07A-08		each	0 00 each
101195 SEAL RING FOR PLUMMER BLOCK BEARINGEXTENDED DE		3.00) each	17.01 each	51.04 02-12C-03		leach	0.00 each
101223;Handle, p/n 016-10-0-4252;00 - l'uller	101223	1.00 each	0.00 each	0.00 02-098-02) each	0.00 each
101226; Idler, Troughing Impact, 24" Garland Type, w/ Hook, Comlete Assy. (Rubbe		0 00 each	205.34 each	0.00 NWL		each	0.00 each
101236) FILTER, WATER	101236	U.D.I each	49.80 each	0.00,NWL		each	U.UD each
101237 Ballast, 1-1000W, S52, High Pressure Sodium (HPS), Quad Tap, p/n 71A8		0.00 each	0 00 leach	0.00 NWL		each	0.00 each _
101247 TRANS PKG 450VMIN 300A DARL FULLER	101247	1.00 each	521 61 each	621.61(02-13D-02) each	0.00 each
101254 OUTSIDE K-2 ATT BAR LINK	101254	8.00 each	6.07 each	48.58 02-03A-09		each	0.00 each
101261 Jack Screw, Journal Saddle, p/n HE-432 - CE Haymond	101261	4.00 each	31.06 each	124,23 02-06C-07		each	0.00jeach
101284 Sensor, AC Current, linput 0-5, Model 420 0.5 - Riley Corporation	101284	3,00 each	202.28 each	606 83 02-14B-03) each	0.00 each
101295;Body Only, C-300 Compressor - Fuller	101295	0 00 each	0.00 each	0.00 NWL		Deach i	U IXI each
101297 Circuit Board, Pulse Amp Interface, p/n 119476 - Allen-Bradley	101297	1 00 each	378.00 each	378.00 02-08A-05		cach	0.00 each
101306; Repair Kil, Diaphram, p/n D2451 Ounicy	101306	1,00 each	277 37 each	277 37 02 051) 04		Cach	0 on each
101348 Bushing, OD, SOS x 1-7/16" - Martin	101348	0.00 each	8.28 each	0.00 NWL		each	0.00 each
101366 Cage, Fiberglass Spacers, 6 @ Bag, p/n ABC 44P - W.W.Sly	101366	247,00 each	6 59 each	1628.86 04-06B-03		Deach	0.00 each
101372; Breaker, Circuit, Series C, p/n	101372	1,00 each	0 00 each	0.00 02-138-05		Deach	0 00 each
101383 Valve, Solenoid, 3/8* npt, 2 way, N.C., 120v/60h, 5-150 psi, p/n 8210G36 - A	101383	0.00 each	250.68 each	0.00 NWL		each	0.00 each
101413 SOLATOR (M-SYSTEM) LEAR	101413	0 00 each	0 00 each	0.00 NWL	C. C. at the British Confession of Confessio	Deach	0.00 each
101414 Filter Cartridge, p/n U3003 -	101414	2.00 each	72.77 each	145 54 02-02C-04		each	0,00 each
101480 Cooler, After/Reheater Assy, w/Anode-O/D Series, p/n G1179/A	101480	0 00 each	1350.00 each	0.00 04-04D-02		0 each	0 00 each
101503 PLUNGER, TOUCH START FOR PT-31XL L-TEC	101503	5.00 each	4.06 each	20.32 02-03A-05		0 each	0 00 each
101522 Bearing, Spherical Roller, 260mm, " use cal # 102864 " p/n 23152 CA/W3	101522	1 00 each	2372.00 each	2372.00 04-01A-03		0 each !	0.00 each
101557 Overload Unit, 593CM-BOV169 - Allen-Bradley	101557	1.00;each	0 00 each_	0.00 02-14C-02		0 each	0.00;each
101582 Ballast Kit, Replacement, p/n - Hubbell	101582	1.00 each	0.00 each	0.00.02-14C-08	0.00	0 each	0.00 each
101634 Shaft, 2-11/16" dia, x 54" long, 4140, w/ 5/8" kwy x 6" long - 7" from each et	101634	0.00 each	378.84 each	0 OXI NWL	0.00	0 each	0.00 each
101638 Valve, Timed Drain, 1/2" npt, 120V, p/n TV94 - 1/2" -	101638	3 00 each	223.00(each	.669.00 02-10C-05	0.00	0 each	0.00 each
101649 Idler Assy. Complete, (w/ ABC-505,523,518), p/n AB-519R - WW SLY	101649	1.00 each	730 30 leach	730,30 02-08F-08	0.00	0 each	0.00 each
101703 "Grease, l'olytrex EM - Exxon " no re-order " use cat # 110785 "	101703	20.00 cach	2.55 each	51.00 08-01A-01	0.00	0 each	0.00 each
101726 GUAGE, 0000-2.5 BAR, 4.5" PHENOL	101726	1.00 each	0.00 each	0.00 02-04D-06	0,0	0 each	0.00 each
101739 VO Board, p/n Allen-Bradley	101739	1.00 sach	0.00 each	0.00 02-14B-02	0.0	0 each	0.00 each
101747 Process Instrument Follower Assy, p/n 118456 - Schenck	101747	2.00 each	352.88 each	705.76 02-14C-05	0.0	0 each	0.00 each
101766 SOLENOID 24VDC FLS	101766	1.00 each	93.00 each	93.00 02-08D-06	0.0	O'each	0.00 each
101774 'Valve, Pressure Relief, Brass, 3/4" npt, (New/Rebuild), Set 150 nsig, Cap 6	101774	1.00 cach	115 24 each	115.24 02-02C-03	0.0	0 each	0.00 each
101838 Baille, Swirl, Plasmaarc, p/n 20463 - L-TEC	101838	4.00 each	14.32 each	57 28 02 03A-04	0.0	Ueach	0.00 each
101915 SHAFT SPACER, 7/8" BORE, RUBBER/BRASS	101915	20,00 each	0,00 each	0.00 02-10A-02		0 each	0.00leach
101917 FILTER, FOR DUAL PURGE SYSTEM- DONALDSON	101917	10.00 each	0.00 each	0.00 02-05C-02	0.0	0 each	0.00 each
101919 Flag, American, 4' x 6', Duta Lite, USA Outdoor Flag, p/n - Rairrier Industrier		0.00 each	67.29 each	0.00 NWL		0 each	0.00 each
101925 HANDLE FOR PREHEATER DOORS	101925	44 00 each	25.97 each	1142.58 02-08E-03		il each	0 00 each
101947 'Motor Electric, 100 hp, 1800 rpm, 405T frame, (New/Rebuild), 480V AC, 1		1 00 each	1495.00 each			() each	0 00 each
101998 Cylinder, Pneumatic, 3-1/4' bore x ?? stroke, w/# 231 Clevis Piri, p/n 3-1/4-/		0 00 each	854.78 each	O DO NWL		i) each	O OO each
102017 (hilve Shalt, Special, (Plate1/4*-7 UNC), 3-7/16*, (for Falk 4307JSC25 Gourt		1 00 each	0.00 each	0.00 04-01E-03	0.0	0 each	0.00 each
Total Talling and the popular to the total and the total and the total							

102029 Gauge, 4 5", 1000 PSI, 1/2" NPT, Boltom mount, No Shok	102029	2 00 each	0.00 each	0.00	2-04D-07	1 7	0.00 each	0 00 each
102057 TAPER PIN, #10 X 4-3/4"L MIN TENSILE STR. 120,000 PSI STEEL	102057	15.00 each	8.39;each		2-09D-05),00 each	0 00 oach
102097 FIXED FIELD ECONOMY BOARD AB	102037	2.00 each	4500 00 each	9000 00 0			000 each	0.00 each
102107/Bearing Block, NI- Hard, (for Internal Gravity Takeups), p/n 24160-A -	102107	- compression and compression of the compression of	308.00 each		2.07A-08		0.00 each	0.00 each
102114 MANIFOLD, 3 STATION DO-2 FULLERSELLING PRECISION	102114	2.00 each	200 00 each		2-07A-08		0.00 each	0 00 each
102132; Reciliter Board	102132	1.00 each	0 00 each		2-088-06		0.00 each	0 00 each
102143: Valve, Pressure Reliet, Brass, 2" npt, (New/Rebuild), Set 27 osig, Cap 27 d	102132	4.00 each	4.60 each		2-02C-09	Acres 12 to the first proper laws	0.00 each	0.00 each
102169 Cap. Hydraulic Filler, p/n 6577785 - Bobcat	102169	0 00 each	3.33 each		2-02C-08		00 each	0.00 each
102186 Universal Flow Indicator, Insite, 200 PSI liquid, 100 PSI air at 70F max prest	102188	1.00 each	58,46 each		2-13C-07		00 each	0 00 each
102199 Meter, A-C Ampres, 0-5 AAC, 250-240 LSPB SCALE, 0-75 AAC, p/n 25023		8 00 each	32.32 each		2-13D-05		0.00 each	0.00 each
	102242		0.00 each		4-05C-02		0.00 each	U UO each
102242 Motor, Electric, 7-1/2 hp. 900 rpm, 256T frame, 14 fla, TEFC, p/n - Baldor vi 102246: Valve, Pressure Relief, Brass, 2-1/2" npt, (New/Rebuild), Set 42 psig, 2674	102242	1.00 each	272,43 each		2-02C-02	Lance Street Street Street	0.00 each	0.00 each
							100 each	0.00 each
102248 ALLEN-BRADLEY, STAND-OFF CARD	102248	1.00 each	0.00 each		2-08D-02			
102262) PT Assy/Voll F8 CMOS 120/208V, p/n 41-05-254057 -	102262	1 00 each	422.09 each		2-14A-03		00 each	0 00 each
102267 CAGE, 5" X 8"-2-3/8" FULLER	102267	13 00 each	15.97 each	207,62			0.00 each	0.00 each
10229:1 Fifter Element, Air, Felt Version - Universal	102293	3.00 each	75.01 each		2-17E-03		0.00 each	0.00 each
102296 Valve, Needle, Shut Off, p/n R-25R-11-101 - Fuller / p/n N800-S - ???	102296	22.00 each	37.90 each		2-06C-05		0 00 each	0.00 each
102333 Larno Head Assy, Low Voltage, p/n 1660S - Wodhead	102333	2.00 each	78.04 each		2-18B-03		0 00 each	0.00 cach
102339 'Blade, Classifier, (for Loesche Mill), dwg 730-90-2-5336-01, prod # 78296 -	102339	0.00 each	82.89 each	000			0.00 each	0.00 each
102378 Double Barrel Terminals, 2 of 2/0, 500 mcm, p/n T600MA1 - Westinghouse	102378	4.00 each	0.00 each		2-18A-06		0.00 each	0.00 each
102386 Module, Input, Direct I/O, 32 Input, 120 vac, p/n.17971-32A0 · Allen-Bradley	102386	0.00 each	1237.93 each	0.001			0.00 each	0.00 each
102422 CONTROL CIRCUIT TRANSFORMER CLASS 9070 TYP2 GO-2	102422	1.00 each	0.00 each		2-08A-07		0.00 each	0.00 each
102458 Sleeve, Nylon Abrasive, 9' oal, p/n A3905 X 9' -	102458	2.00 each	13 14 each		2-07B-05		0.00 cach	0.00 each
102533 *Lithe Check Valve, p/n 103-10-1842-807 - Fuller	102533	0.00 each:	31 HB each		2-02D-06		0.00 each	0.00 each
102538 Repair Kil, Gasket Set, for C-300/250, p/n 103-78-1-0821-15 - Fuller	102538	0.00 each	464.94 each		2-15A-03		0 00 each	0.00 each
102543 T&T BRD, DC DRIVE SCH TRIGGER AB	102543	1.00 each	0.00 each	**********	2-11C-02		0.00 each	0 00 cach
102545 Pump Only, (New/Rebuild), p/n G6T Hr, s/n 90-13438, Turbine Pump - Aurg	102545	1.00 each	3501.04 each	3501 04 0			0 00 each	0.00 each
102540 OIL PUMP FOR LUBE	102546	1.00 each	202.93 each	302 93 0	2-10D-04		U 00 each	0.00 each
102585 FUSE, 400A/600V	102585	3.00 each	42.61 each		2-088-05		0.00 each	0,00 each
102596 Switch, Limit, p/n 802M-NPJ1 - Allen-Bradley	102598	3 00 each	280.14 each		2-14A-05		0.00 each	0,00 each
102659 THERMOCOUPLE, SS CLAD TYPE 'K' WITH 1/16" CERAMIC COATIL	102659	1.00 each	154.21 each	154.21	2-138-01		0.00 each	0.00 each
102668 Brick, DOLOMITEDMX 220 MM VDZ B322 DOLMAX COAT/UNPLT	102666	0.00 each	8 42 each	0.00	4WL		0.00 each	0.00 each
102680 Fin, for REX 864 Chain, (for Bucket Elevator), p/n ER864 - Rexnord	102680	5.00 each	23.39 each	116.95	2-07A-07		0.00 each	0.00 each
102733 VALVE, W/ SOLENOID, 11, 120V, 50HZ 5 PSIG, AIR	102733	1.00(each	117,00 each	117.00	2-18A-03		0.00 each	0.00 each
102789 Blue Blow Out Disc, 2950 psi, p/n 509-297-000 - Tiabon	102789	3.00 each	1,08 each	3 24 (2-180-04		0.00 each	0.00 each
102794 COUPLING WASTE PACKS FOR 16" SCHEW, p/n 3407JSC ·	102794	1 Oxileach	597,25 cach	597.25	2-07A-05		0,00 each	0.00 each
102798 HOUSING FOR SUTOR AIR LIFT BLOWER	102798	1 00 each	0.00 each	0.00	24-01C-04	j	0.00 each	0.00 each
102829 COUNTER-WIEGHT BEARING LINDMARK	102828	2.00 each	100 00 each	200.00	02-06C-03		0.00 each	0.00 each
102832 'Compressor, C-150, Cylinder Assy., (New/Rebuild), 750 rpm, 47 psi, (Fulle)	102832	0.00 each	9554 (IO) each	0.000)4-		0 00 each	0.00 each
102876 Module, Power Supply, PLC5, p/n 1771-P4S - Alten-Bradley	102876	0.00 each	0.00 each	0 001	WL.		0.00 each	0 00 each
102890 PCB, Microprocessor Fault bd, slot 13EA, p/n 12M03-00283-00 (old # 1021	102880	1,00 each	2878.00 each	2878.00	02-13C-05	- I	0.00 each	0.00 each
102925 Solengid Repair Kit, 1/4*, p/n M-1141B - 1/4* - Goyen / p/n 000-02-0-0920-2	102925	3,00 each	25,48 each		02-10B-07		0.00 each	0.00 each
102927 MOTOR, 15HP, DC, 1750-2300RPM, 500 VOLT ARMATURE, TEFC W/FE		1.00 each	3460,00,each	·	04-05B-04		0.00 each	0,00 each
102934 PROTECTIVE BOOT FOR A-B PUSH BUTTON SWITCH, BLK	102934	8.00 each	23 86 jeach		U2-03A-03	-i	0.00 each	0.00 pach
102974 'Can Only, Idler, Troughing, Impact, 42' belt width, 5' dia x 15' wide, p/n SC		18.00 each	92.54 each		03-09G-02		0.110 each	0.00 each
103007 Motor, Electric, 50 Np., 1800 rpm, 326T Frame, (New/Rebuild), 480V AC, 58		2.00 each	1227.96jeach	Completeness of the complete and the	04-05C-03		0.00 each	0.00 each
103012 HVAC FILTER DUST COLLECTOR W.W SLYCOTTON SATEEN	103007	140.00 each	13.55; each		04-068-03		0.00 each	0.00 each
103015 Flap, Triple Gate, Prod # 117203, p/n 730-86-4-5701-01 - Fuller	103012	2 00 each	930.00 each		04-01D-02		0.00 each	0.00 cach
[U3013] FIGD. THOIR CIBIR, FIVO # [17203, D/]] /30-60-4-370 FOT FOTH		1,00 each	5328.91 each		02-08D-01		0.00 each	0.00 each
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
103020 DATAHIGHWAY II COMP INTERFACE, p/n 1779-KFLR - Allen-Bradley	103020		(k) nach	0.00	02.140-04	"ii	0.00 each	0.00 each
103020 DATAHIGHWAY II COMP INTERFACE, p/n 1779-KFLR - Allen-Bradley 103044 Repair Kit, for Solenoid Valve, p/n ABM - Plister	103044	2,00 each	0.00 each		02-14C-04 02-17B-05		0.00 each	0.00 each
103020 DATAHIGHWAY II COMP INTERFACE, p/n 1779-KFLR - Allen-Bradley			0.00 each 42,10 each 439,03 each	42.30	02-14C-04 02-17B-05 02-11D-01		0.00 each 0.00 each 0.00 each	0.00 each 0.00 each 0.00 each

103149 PACKING 30X4, L=2680MM 710MM BEARING	103149	6 00 each	1.00	0.00/00 100 05 1	i 0.00 each 0.00 each
103168 AIR PAD, NORTON BLOCK, 12 X 12, CERAMIC	103168		1,00 each	6.00 02-18D-06	0.00 each 0.00 each
103250(BAG CLAM ³ FULLERFOR ITEM #39-03-106		5 IXO each	34 60 each.	173.00 02-09A-05	Gooleach 0.00 each
103274 Repair Kit. Cylinder, * Obsolete - No Longer Available * DN 250 MM, (for Pfi	103250	14 OUleach	1 68 each	23,57 02-07A-04	0 (Nojeach 0.00 each
		4 00 each	99.93 each	399.72 02-03B-04	
103276[Fuse, 203 amp, 250V, semi conductor, PROTISTOR, p/n A025R200 - Ferri		1.00 cach	31,81 each	31,81 02-13A-05	
103327 Cylinder, Piston, Barrell, (for Sampler) · Widger Mig.	103327	0.00 each	475.00 each	0.00 02-04A-01	0.00 each 0.00 each
1033A6 Puller, (for C/M FK Pump, p/n 116-77-3-2648-lk) - Fuller	103346	1.00 each	663.00 each	663.00 02-15A-06	0.00 each 0.00 each
103348 Valve, Check, In-Line, 1° npt, p'n CPIFF 6-5A - Fittings, Inc	103348	2.0(leach	87.50 each	175.00 02-02B-02	0.00 each 0.00 each
103410 Clamping Hing, Tire, p/n 730-90-3-4500-61 - Fuller	103410	1.00 each	4011.00 each	4011.00 03-01E-02	
103418 Regulator, Water Pressure, Size 1-1/2, 180 deg. 175 psi, pn 1-1/2* 009OTM		1.00 each	0.00 each	0.00 02-07C-07	0 00 each 0.00 each
103420 REPAIR KIT. FOR PILOT AIR ACTUATOR VALVE	103420	4 00 each	13.25 each	53.00;02-02D-04	
103430 Bearing, Flange, 4 Bolt, 2-7/16", p/n VF4S339 - Browning	103430	2,00 each	109.14 each	218.28 02-12D-07	0.00 each 0.00 each
103447 Blower / Vacuum, 110V, Single Speed, High-Velocity, p/n 3144K25 w/Soud		0.00 each	484.27 each	0.00;01-04B-03	0.00 each 0.00 each
103474 Front Bezel Keypad, p/n 9138-166 - Schenck	103474	0.00 each	1190.00 each	0.00 02-08C-07	0.00 each 0.00 each
103532 TYVECK SHOE/BOOT COVER	1035321	45.00 each	2 10 each	94 50 01-04B-05	0.00 each 0.00 each
103538 FUNCTION RELAY PCB AB	103538	1.00 each	357.00 cach	357 00 02-08D-02	0.00 each 0.00 each
103552 Actuator, Stilde Valve, Double Acting, 120V, (for Air Cylinder), p/n 2MA86FX	103552	1.00 each	376.68 each !	376.68 02-06U-02	0.00 each 0.00 each
103574 Indicator, Thermocouple, p/n APLTC402/A - Red Lion	100574	0.00 each	0.00 each	0.00 NWL	0 00 each 0.00 each
103599 4" FLOWSEAL WAFEH B-F VALVE	103599	1.00 each	1210,00 each	1210.00 02-11C-04	0.00 each 0.00 each.
103624 "Strainer, "Y" type, 1" npt, Cast Iron, 4-7/8" End To End, 3/4" Blow-Off Outle	103624	2 00 each	6.51 each	13.01 02-02D-07	0.00 each 0.00 each
103632 Power Break, 1200 Amp, Manually Operated, p/n TPSS6612G - General Eli	1036321	1,00 each	0.00 each	0.00 04-03D-03	0.00 each 0.00 each
103634 Stater Coil, w/ Winding Supplied, p/n 34A275386001 - GE	103634	2.00 each	3304 33 each	6608,66 04-02A-01	0.00 each 0.00 each
103657 Holder, Oil scraper, p/n UD6197B	103657	0.00 each	0.00 each	0.00 02-04C-04	0.00 each 0.00 each
103659 Chain Link, SK7-55, C00312C/C00471A, p/n 111680PRD - BMH Americas	103659	0.00 each	0.00 each	0.00 04-04H 04	0.00 each 0.00 each
1035H2 GASKET, KILN BURNER OUTER TUBE	103662	1.00 each	0.00 each	0.00 02-Fence	0 00 each 0.00 each
103693 FLOW CONTROL VALVE 1.1/5-V-350 BAR	103693	2.00 each	0.00 each	0.00 02-09B-02	0.00 each 0.00 each
103821 'Lamp, Fluorescent, 110W, 96', Recessed Double Contact, Cold Temp, FL	AG ONLY,	15,00 each	4.78 each	71.70(02-08A-01	0.00 each 0.00 each
103828 Valve, Notary Airlock, 12" > 24", p/n 116-72-4-1008-00 - Fuller	103828	1.00 each	0 00 each	0.00 04-02B-01	0.00 each 0.00 each
103846 FAIRBANKS MORSE MOTOR, 3 HP	103846	0.00 each	0 00 each	0 00 NWL	0.00 each 0.00 each
103861 Valve, 3°, Globe, p/n F2081-M1 - Milvaco	103861	1,00 each	0 00 enon	0 00 04-040-02	0.00 each 0.00 each
103880 Arm, Rolary Valve Actuator, p/n 01-P60-B43 - Fuller	103880	1.00 each	0.00 each	U UU 02-09B-02	0.00 each 0.00 each
103912 Switch, Aux Breaker, 800 amp, 568-71-G13, p/n AKR-70-30H 800AMP - Ge		1,00 each	0,00 each	0 00 02-13C 04	0.00 each 0.00 each
103942 Valve, Pressure Relief, Brass, 1" npt, (New/Rebuild), p/n ?? - Kunkle	103942	3.00 each	22.50 each	67.50 02-02D-08	0.00 each 0.00 each
103951 Fuse, 100 amp, 600V, p/n TRS100R - Gould Shawmut	10,7951	0 00 each	10.48 each	0.00 NWL	0 (iO each 0.00) each
103968 SCR, Gate Drive, 6 (Julse Rectifier, p/n 41-13-260591 -	103968	1.00 each	487.60 each	487.60 (02-13D-02	0.00 each 0.00 each
103979 Brick, Magkor B, 220mm thk x 198mm Ing, VDZ Shape, p/n B-622 - Refram		207 00 each	9.68 each	2004 73 04-Floor	0.00 each 0.00 each
104017 SURGE SUPPRESSOR MOB AB	104017	3.00 each	0 00 each	0.00 02-08B-03	0.00 each 0.00 each
104026 Motor, Electric, w/ Brake, 15 hp, 1800 rpm, frame 254T, 3 ph, 480 vac, 60 H		0.00 each	0.00 each.	0.00 NWL	0.00 each 0.00 each
1040(15) FILTER	104085	1 00 each	11.46 each	11.46 02-15A-05	0.00 each 0.00 each
104090 AMMETER, (UC) 0-50MV GE	104090	1.00 each	0.00 each	0.00 02-08A-02	0.00 each 0.00 each
104092 1/2" MALL IRON EDS TUMB SWITCH APPLETON	104092	2.00 each	0.00 each	0,00 02-14A-08	0.00 each 0.00 each
104160/STARTER, NON-REVERSING, NEMA 3 CED	104160	1.00 each	478.86 gach	478.86 02-08D-08	0.00 each 0 00 each
104167 Limit Switch: p/n 802T-CP - Allen Bradley	104167	1.00leach	214.53 each 1	214.53 02-14C-04	0.00 each 0.00 each
104187 Meter, D-C Ampres, 0-50MVDC, 254-224 ECPZ Scale, 0-150 ADC, p/n 254	\$ 1,5 and an inc. \$40.0	8.00 each	29.77 each	238,15 02-13C-05	0.00 each 0.00 each
104212 PUSH BUTTON, ILLUM HED. ABEXTEND HEAD CAP	104212	5 00 each	0.00 each	0.00 02-08A-03	0 00 each 0 00 each
104223 Circuit Board, p/n MFA4 ·	1 104223	2 00 jeach	0.00 each	D 00 02-13D-03	0.00 each 0.00 each
104241 DIRECTIONAL CONTROL VALVE, MINI	104241	2.00 each	60,30 each	120,60 02-04D 02	0.00 each 0.00 each
104266 FUSE, 175AMP/600V CLASS RK1	104266	3,00 each	30,25(each	00.74 02-08C-05	0.00 each 0.00 each
104269 Brick, VDZ B622 Dolomax Coal/Unpit, Dolomite - Baker Refractories	104269	0.00 each	9.16 each	0.00 NWL	0.00 each 0.00 each
104271 "Cylinder, Programatic, 4" bore x 17" stroke, w/ #221 Clevis & Pin, dwg # S3	·	1,00 each	547.27 each	547,27,04-04C-03	0.00 each 0.00 each
104296 HE LAY BOARD FOR ALIMAK ELEVATOR	104296	1.00 each	600.00 each	600.00 02-11A-05	0.00 each 0.00 each
104297 Actuator, Pneumatic, Double Acting, Hack & Pinion, phi 790-300 · Keystone		1.00 each	00000 each	0.00 02-18D-04	0 00 each 0 00 each
104366 'Valve, Pressure Relief, Brass, 2-1/2' npt, (New/Rebuild), p/n 1445 - Kunkle		1.00 each	119.50 each	119 50 02-02D-06	0.00 each 0.00 each
31 10-300 Yaive, riesotte Neisi, Class, c. 112 lipt, (NetwineOdild), pri 1443 - Notice	104500	1,00[0,01]	. 112.44(546)	. 10 00102 020 007 1	

	JEN TEO LET L						0.001
	FILTER, LIFT & LUBE RIPLEY	105441	2 00 each	23 16 each	46,32 02-05A-02	0 00 each	0 00 each
	Compressor, C-250, Spare Asset, p/n - Fuller	105456	1 00 each	0.00 jeach	0.00 04-FLOOR	0.00 cach	0 00 each
	INSIDE K-2 ATT BAFILINK	105472	13 00 each	5.51 each	71.67 02-03A-09	0.00 each	0.00 each
	Airanger, DPL End, 22KHZ, p/n 811201(I0 - Milltronics	105477	1.00 each	0 00 each	0 00 02-14A-02	0.00 each	0.00 each
	1 Seal, Oil, (for Lower Bearing), p/n 416149 - National / p/n 43771 - CII	105481	2 00 each	22.00 each	44.00 02-03A-05	, 0.00 each	0.00 each
	2 'Seal, Metric, 1.772 x 2.441 x 315 (TC/N), p/n 45X62X8TC - TCM	105482	6 Cú each	3.34 each	20.04 02-02D-06	0 00 each	0.00 each
	B SHAFT SPACER, 1' BORE, RUBBER/BRASS	105488	10.00 each	0.00 each	0.00 02-10C-05	0.00leach	0.00 each
	2 Tire, Grinding, Reg. Size, 20-G, ** Use Cat # 112528 **, (for Loesche Raw f	105512	0 00 each	13626 75 each	0.00 11-01B-01 11	-Outside 0.00 each	0 00 each
10553	CIRCUIT BREAKER, 3A	105537	1.00 each	0 00 each	0.00 02-11D-02	0.00 each	0.00 each
105580	DA/D Convener Card, FAD-E906, p/n 9182,431 - Schenck	105580	1.00 each	1585 00 each	1585.00 02-08B-02	0 00 each	0.00 each
105609	9 Idler, Can, Replacement Holl, Steel, 30" Bell, 5" x 11", C series, Factory Se	105609	38 00 each	30 03 each	1141 14 03-09B-02 03	3-IDLER 0.00 each	0.00 each
10561	7 Brick, Almag 85, 220 mm, p/n B622 - Refratochnik	105617	8000.00 each	10 39 each	83112.65 04-1 loor	0.00 each	0.00 each
	B Lamp, Indicating, p/n 757-SA6 - GE	105618	11.00 each	1 32 each	14.46 02-03D-04	0.00 each	0.00 each
	3 Worm Gear, #6. (for A AUMA SA 14.5-54), p/n Z000 515 - Auma Actuators	105663	1.00 each	112.00 each	112.00 02-03B-06	0.00 each	0.00jeach
10570	3 FUSE, FORM 101, 350A/700VAC	105703	1.00 each	47.63 each	47 63 02-08A-03	0.00 each	0.00 each
	Meter, D.C. Ampres, 0-1MADC, 254-204 FASF, Scale 0-500 VDC, p/n 25420	105722	4.00 each	22.77 each	91 09 02-13B-05	0.00leach	0.00 each
	3 Valvo, Pulso, "NO LONGER AVAILABLE " 1-1/2" npt, p/n T1/54/0-8 - TAE			75.31 each	0.00 NWL	0.00 each	0.00 each
			0 00 each			0.00 each	0.00 each
	1 Bag, Filter, " use cat # 110373 " 11.5" x 369", 13.5 oz Fibergiass Silicone	105791	147.00 each	78.32 each	11512.97 04-06B-16	0.00 each	0.00 each
	DISC, 8" VALVE FIG 100 TYPE REPLACEMENT FOR FIG 100 KEY		7.00 each	26 29 each	184.00 02-18E-04		0.00 each
	FILTER ELEMENT, DUMP TRUCK AIR	105817	1 00 each	25.40 each	25 40 02-15B-02	0.00 each	
	BREAKER, WESTINGHOUSE SERIES C	10582:1	1.00 each i	269.26 each	269.26 02-11D-03	0 00 each	0.00 gach
	5 Switch, Whisker, Precision Limit, p/n 8LS152 - Micro Switch	105845	0.00 each	136.20 each	0.00 02-13D-04	0.00 each	0 00 each
	2 IGNITOH, for 100W HPS light	105802	2 O() each	0.00 each	0.00 02-13C-03	0.00 each	0.00 each
	4 HEAT SHIELD PT31 L-TEC	105884	3.00 each	13,93 each	41.79 02-03A-04	0.00 each	0.00 each
10591	8 "Seal Kit, p/n LB6843-3H - Link Belt / p/n LER-44 - SKF	105918	1,00 each	18.41 each	18.40 02-1217-08	0.00 each	0.00 each
10595	3 V-Belt, B-62, BX-62	105953	1.00 each	7.74 each	7.74 02-19C-02	0.00 each	1 0 00 each
10597	4 FUSE, FORM 101, 250A/500VAC	105974	1 00 each	17,73 each	17 73 02-03A-03	0.00 each	0.00 each
10597	6 Power Supply, PLC5, 16 amp, p/n 1771-P7 - Allen-Bradley	105976	1 00 each	940.51 each	940.51 DOUG'S TRAIL	LER 0 00 each	0.00 each
	1 Sleeve, Nylon Abrasion, 7' gal, p/n A3905 X 7' ·	106001	0,00 each	10.22 each	0.00 NWL	0.00 each	0.00 each
	6 LOAD CELL MOUNT	106016	1 00 each	0 00 each	0.00 02-11C-06	0.00 each	0.00 each
	Idler, Troughing, Impact, (3)" belt width, 35 degree, 5" dia x 11" ing Rubber F	106019	24.00 each	76.40 each	1839.60103-09C-03 [03	3-IDLE9 0.00 each	0 00 each
10602	9 Blower, p/n 3206-46L3 Tuthill / MD Prieumatics	105029	2.00 each	1802.88 each	3605 75 04-01C-02	0.00 each	0.00 each
	2 'Gauge, Pressure & Vacuum, p/n ??. · Mercoxi Control	106042	1 00 leach	0.00 each	0.00 02-118-02	0 00 each	0.00 each
	B Grease, EP2, (case=10 tubes), Ulti-Plex - Chevron / Uni-Rex - Exxon	106048	30 00 each	2.08 each	62 31 10-01A-01	0.00 each	0.00 each
	3 'Motor, Electric, 5 hp, 3600 rprn, Frame 184T, (New), 460V AC, 6 fla, 3 ph,	106083	2 00 each	437.85 each	875.70 5-Apr	0.00 each	0.00 each
	5 Barrel, 8', (Exchange/New), (for FK Pump), p/n 116-30-0-9392-00 - Fuller	106125	1.00 each	1844,00 each	1844.00 04-01B-03	0.00 each	0.00 each
		106149			0.00 04-01A-04	0.00 each	0,00 each
	PILLOW BLOCK BEARING ASSY W/ END COVER		1 00 each	0.00 each	6161.94;04 (14B-04	0.00 each	0.00 each
	7 Wear Plate, (for Hammer Crusher), Item PP2234, dwg 941403, prod # 1613		12.00 each	513.50 each			0.00 each
	3 DOUBLE GATE VALVE FULLER	106173	1 00 each	0.00 each	0.00 04-020-04	0.00 each	
	9 Ballast, 400W, Mercury Vapor (MV), H33, Quad Tap, p/n 71A4071-001 - A		1.00 each	250.00 each	250.00 D2-13A-03	Is about 110 from	.0.00 each
	1 Ballasi, 150W, S55, p/n 71A8107B - Advance	106221	8.00 each	71,00 each	568 00 02-11D-04	0 (X) each	0.00 each
	3 Module, Signal Input, p/n 668RA	106233	1.00 each	554.28 jeach	554.28 02-11C-03	0.00 each	0.00 each
	0 Switch, Proximity Detector, 10-55 Vdc	106270	1.00 each	0 00 each	0.00 02-13C-03	0.00 each	0.00 each
	Balance Shaft for Separator Cage	100320	1.00 each	200.00 each	200:00 04-01E-02	0.00 each	0.00 each
10654	9 Gasket Set, for C-100 Compressor, (USE CAT # 111602) p/n 103-73-2-25	05-40 - Full	er		NWL	0.00 each	0.00 each
10663	6 Motor, Electric, 7-1/2 hp, 1200 rpm, 254T frame, 3 ph, 460 vac, TEFC - WE	106636	1.00 each	0.00 each	0 00 04-05A-02	0.00) each	0.00 each
	8 FABRICATED SEAL HOUSING	106848	2.00 each	0.00 each	(I.00 02-04B-04	0.00 each	0.00 each
	2 Expansion Joint, Feed Chute, Triple Gate, p/n 730-90-3-2408-01 - Fuller	107(142	2.00 each	639.00 each	1278,00,04-04A-01	0.00 each	0.00 each
	8 Housing, Weldment, Converge/Diverge, "No Heorder - Heplace w/ Fuller		0.00 each	3553.13 oach	0.00,NWL	0.00 each	0.00 each
	4 Motor, Electric, 25 hp, 1200 rpm, 324T frame, 480V AC, TEFC - WEG		1 00 each	O.00 each	0 00 04-05C-03	() 00 each	0.00 cach
	2 Pulley, Mine Duty, Crown Face, 16" dia x 26" wide, (Bend), E QD Bustwd, w	107322	1 00 each	447.06 each	447.06 04-03E-01	() (K) each	0 00 each
	7 Motor, Electric, 100 hp, 1800 rpm, 405TS frame, 230/460V AC, TEFC	107627	1 00 each	1200.00 each	1200.00 04-05C-03	0 00 each	
F		107815	2520.00 each	10.47 each	26392.15 04-Floor	0.00 each	0.()) each
וטיטו וכ	5 Brick, Almag A1, 220mm, B622 - Baymag / Retratectinik	10/015	abau cureach	10.47 (8801	(COURT 1001	1 0.00(680)	

107010 D.int. Aliman 11 0000 - 1001 - 1011		55.00				0.00	0.001
107816 Brick, Almag A1, 221mm, B222 - Baymag / Refratechnik	107816	57.00leach	10.12 each	576 70 04 Floor		0.00 each	0.00 each
107817 Brick, Almag A1, 220mm, BP22 - Baymag / Refratechnik	107817	60 00 each	B 90 each	534.02 04-Floor		0.00 each	0.00 each
107810 Brick, Almag A1, 220mm, BP+22 - Baymag / Retratechnik	107818	194,00 each	11.23 each	2179.14,04-Floor		0.00 each	0.00 each
107893 Shaft Assy, High Speed Pinion and Shaft (for 15MO 15008 Symetro Gear),	107893	1 00 each	6860 00 each	6860 CO.NWL		0.00 each	0 00 each
107904 Handle Nut, p/n 91038A035 - McMaster-Cair	107904	42.00 each	5.00 each	210 00:02-06C-03		0.00 each	0.00 each
107999 *Hub, Oil Pump, p/n RE-1596 - CE Raymond	107999	1.00 each	1401.00 each	1401.00.02-08D-03		0.00 each	0 00 each
108049 Cage Nut, (for SO-90 Sturtevant Separator 2-1/2"-8 TPI), p/n 14AS420 - Mai	108949	1.00 each	325 00 each	325 00 02-07B-04	·	0.00 each	() 00 each
108063 Brick, Kruzite-70, Dam Ring, (E), 144-162 RKB, p/n 78514 - Harbison-Wall	108063	476.00 each	8.67 each	4125 40 04 Floor		0.00 each	0.00 ench
108064 Brick, Kruzite-70, Dam Ning, (C) 150-168 RKB, p/n 65169 - Harbison-Walke		492 00 each	8.64 each	4250.56 04-Floor		0.00 each	0.00 each
108065 Brick, Kruzite-70, Dam Ring, (A), 156-180 RKB, p/n 115484 - Harbison-Walk	108065	524.00 each	11 00 each	5762 92 04-Floor		U.00 each	0.00 each
108066 Brick, Kruzite-70, Dam Ring, (D),162-180 RKB, p/n 65174 · Harbison-Walke		524 00 each	8 85 each	4636.75 04-Floor		U 00 each	0.00 each
108067 Brick, Kruzite-70, Dam Ring, (B),168-180 RKB, p/n 78516 - Harbison-Walke		524.00 each	7 15 each	3747.39 04-Floor		0 00 each	0 00 each
109084 Riding, Pads, Kiln Straddie Pads, (Pier # 1), Complete Set. pln 159270 - Fu	108084	0.00 each	28542.00 each	0 00 NWL		0 00,cach	0.00 each
108158 Anchor, "V", Refractory, 5/16" dia. x 8" Long, WFV, .312, CL 19.500, 304SS	108158	0 00 each	1 19 each	0.00[08-01C-03		0.00 each	0.00 each
108158 Anchor, "V", Refractory, 5/16" dia x 8" Long, WFV, 312, CL 19:500, 304SS	108158	5000.00 each	1 57 each	7854.85 08-01C-03	i	0,00 each	0.00 each
108159 Anchor, Xmas Tree, 3/8" x 8", w/ Single 1-1/2" L Bend, 304SS, p/n RA-43 -	108159	2000.00 each	2.54 each	5080.00 08-02A-03	I	0.00 each	0.00 each
108194 "Replacement Screen (for Keckley 1" strainer Style B-250-1")	108194	2.00 each	7 40 each	14.81 02-06A-03	1	0.00 each	0 (10 each
108245 Offset Link, (for C2060 Roller Chain), p/n C2060 - Whitney / p/n ?? - Jeffrey	108245	6.00 each	1.35 each	8.10 02-03B-06	1	0.00 each	0,00 each
TURIOR AIR PURGE SEAL ASSY	108308	1.00 each	895.00 uach	895.00 02-03B-05		0.00 each	0.00 each
108309 AIR PURGE SEAL SLEEVE	108309	1.00 each	112.50 each	112 50 02-03B-05		0.00 each	0.00 each
108329 Pressure Spring, Obsolete - No Longer Available ** p/n 864 633 00 00 - Ptis	108329	6 00 each	3 Olieach	18.06 02-07A-06		0.00 each	0.00 each
108369 Cross Bar, Pressure Spring, p/n RT-851 - CE Raymond	106369	1.00 each	224.00 each	224.00 02-04C-09		0.00 each	0.00!each
108392 TOSHIBA.G3 TOSVERT-130 TRANSISTOR INVERTER	108392	1.00 each	490,00 each	490.00 02-08C-01		0.00 each	0.00 each
108393 TOSHIBA G3 TOSVERT-130 TRANSISTOR INVERTER	108393	1.00 each	490 00 each	490.00 02-08C-01		0.00 each	0.00 each
108632 Molor, Electric, 30 lip. 1780 rpm, frame 286T, 3 ph, 460VAC, TEFC, p/n EM	108632	0.00 each	0 00 each	0.00/NWL		0.00 each	0 (XI each
108745 Circuit Breaker, "RECONDITIONED", w/ 2500 amp rating plug, with UVR ar	108745	0.00 each	4950.00 each	0.00 NWL		0.00 each	0.00 leach
108879 Bracket, Kiln Seal Rope, (for Kiln Feed End Seal), per dwg 3.710022 (old dv		0.00 cach	65.63 each	0.00,02-180-05		0.00 each	0.00 each
108895 CIRCUIT BREAKER, 3 AMP, 3 POLE, 600VAC-250VDC	108885	1.00 gadi	0 00 each	0 00 02 11D 05		0.00 each	0.00 each
108806 CIRCUIT BREAKER, 3 AMP. 3 POLE, 600VAC-251VDC	108886	1.00 each	0.00(each	0 00102-11D-05		0 00 each	0.00 each
108894 Fulley, H.D., Crown Face, 20'dia x 32' wide, w/ OD Bushings 2-7/16" (Tail)	108894	1.00leach	564 30 each	564.30 04-03E-01		0 00 each	0.00 each
108900] 'Reduction, Gearbox, Shaft Mount, 25 50 1 Ratio, Output - 55 rpm, 10 hp, (h		1 OU each	2178.53;each	2178.53 04-04E-01		U (X) each	0.00 each
		4.00 each	23,(X) each	92.00 02-16A-05		0.00 each	0.00 each
108927 Gasket, Buna, size 1/8' with 18' hole Cut	108927			1502.85 02-11C-07		0.00 each	0.00 each
109024 Roller, for Elevator Car Hoist Assembly without shaft, p/n 9034-903 - Alimak		3.00 each	500 95 each			0.00 each	0.00 each
109073 Brick, Magkor B, 220mm thk x 198mm lng, VDZ Shape, p/n B-222 - Refram	109073	6.00 each	9.69 each	58 14 04-Floor		0.00 each	0.00 each
109074 Brick, Magkor B, 220mm thk x 198mm lng, VDZ Shape, p/n P-220 - Retram		256.00 each 1	12.03 each	3078.94 04-Floor			0.00 each
109075 Brick, Magkor B. 220mm thk x 198mm lng, VDZ Shape, p/n P-221 - Refram		26.00 each i	9.04 each	235.06 04-Floor		0.00 each	
109077 Tunnel Mixer, Zone A1, Pos. 5, Alloy FMR-44 (Dwg. # S/CA-337-1, Rev. A)	109077	0_00 each	127.97 each	0.00 NWL		0.00 each	0 00 each
109078 Support, Zone A1, Pos.8, Allcy FMX-301, (Dwg. # S/CA-337-1, Rev. A) - Ma		0 00 each	32 47 each	0 00 NWL		0 00 each	0 00 each
109080 Tunnel Mixer, Zone B1, Pos. 7, (Dwg. # S/CA-337-1, Rev. A) - Magotteaux	109080	0.00 each	127.97 each	0 00 NWL		0.00 each	0.00 each
109081 Tunnel Mixer, Zone B1, Pos. 8, (Dwg # S/CA-337-1, Rev. A) - Magotteaux	109081	0.00 each	67.51 each	0.00 NWL	ا الله الله الله المالية	0.00 each	.0.00 each
109082 Wear Plate, Zone B1, Pos. 9, Alloy FMR-250, (Dwg # S/CA-337-1, Rev. A)		0 00 each	44.70 each	0.00 NWL		0.00 each	0.00 each
109084 Support, Zone B1, Pos.11, Alloy FMR-53, (Dwg. # S/CA-337-1, Flev. A) - Ma		0.00 each	12.38 each	0.00 NWL		(J.OO) each	0.00 each
109085 Boll Assy., Zone B1, Alloy 25/20, (Dwg. # S/CA-337-1, Rev. A) - Magotteau	109085	0.00 each	25.00 each	0.00 NWL		0 00 each	0 00 each
109086 Tunnel Mixer, Zone C. Pos. 12, (Dwg. # S/CA-337-1, Rev. A) - Magotteaux	109086	0.00 each	95.13 each	0 00 NWL		0.00 each	0.00 each
109087 Support. Zone C. Pos. 13, Alloy A515, Grade 70, (Dwg. # S/CA-337-1, Rev.	109087	0.00(each	25.46 each	0 00 NWL		0.00 each	0.00 each
109088 Support, Zone C, Pos.14, Alloy A515, Grade 70, (Dwg # S/CA-037-1, Rev.	109088	0.00(each	13.51 each	0.00 ¹ NWL		0.00 each	0.00 each
100000 Bolt Accy Zoog C Allow 1199 (Dum # S/CA 377.) Day A) Magotteguy	109089	0.00 each	22.45 each	0.00(NWL		0.00 each	0.00 each
109093 Brick, Key, Almag 85, 220mm, p/n BP22 - Baymag / Refratechnik	109093	228.00 each	8 84 each	2016.13 04-Fitori		0.00 each	0 00 each
109094 Brick, Key, Almag 85, 220mm, p/n BP+22 - Baymag / Refratechnik	109094	229.00 each	11.58 each	2640.35 04-Fluor		0.00 each	0.00 each
		700 Offeach	1,47 each		08-02A-02	0.00 each	0.00 each
109134 Bricking Shim, 210mm x 190mm, p/n Dblshort - J & L Technologies / p/n RS 109135 Bricking Shim, 210mm x 190mm Dbllong - J & L Technologies 109136 Bricking Shim, 210mm x 190, p/n Straight - J & L Technologies / p/n CRSx1	109135	500.00 each	1.92 each	957.60 08-02A-01	i	0 00 each	0.00 each
109136 Bricking Shim, 210mm x 190, p/n Straight - J & L Technologies / p/n CRSx1	100136	650,00 each	1 05 each	682.50 08-02A-01		U.00 each	0.00 each
109 162 Anchor, "V", Retractory, 5/16" dia. x 2-1/2" Long, SS 304, p/n RA-9-7 - RAI	109162	1600 00 each	0.60 each	960.00 08-01C-02		U.UU each	0 00 each
Togracial A Transport A Land Car V San Cond. Co. 204, but HA-2-1 - HALL	100102	1000 00,000,1	0.00,0001		·	2.2-1-2-2-1	

109163 Anchor, "V", Refactory, 5/16" dia x 3-1/2" Long, 304SS, p/n RA-9-12 - RA	109163	0 00 each	0 77 each	0.00 08-01C-02	0.00 each 0.00 each
109177 Grate Bar, Dwg #935 6003 0021D C00394A, p/n 100569PRT - BMH Ame	ic 109177	4 00 each	189 00 each	756 (ii) 04-04E-01	0.00 each 0 (10 each
109233 'Replacement Roll, Impact Idler, 6' dia x 12-5/8' tog, Troughing, 38', o'n 5	109233	11.00 each	0.00 each	0.00 04-05C-01	0.00 each 0.00 each
109301 Gear, Boston, Horizontal Aluminum Base, X724, 11HA-BK	109301	2.00 each	8.64 each	17 28 02-04C-04	U.(X) each 0 00 each
1093041 Shaft, (New/Rebuild), "No Longer Inventory" (for Coal Mill Rotary Feet		2.00 each	607.00 each	1214.00 02-098-01	0 00 each 0 00 each
109319 VACU-VALVE MODEL BRON, CARBON STEEL WITH NEOPRENE S	LI 109319	1.00 each	578.57 each	578.57 02-108-01	0.00 each 0.00 each
109368 j.imit Switch, with Wobble Stick Spring Head, p/n 9007-C62KC - Square D		1.00 each	132,97 each	132.96 02-14D-04	0.00 each 0.00 each
109383 Pulley, H.D. Crown Face, 16" dia x 57" wide.	109383	0,00 each	0.00 each	0.00 NWL	0.00 each 0.00 each
109399 Element, Coupling, w/ Cap. Size E20, p/n 7300020 - Omega - Rex			78,45 each	78 45 02-13C-05	U 00 each 0.00 each
109399: Element, Coupling, W Cap. Size E20, phi 7300020 - Onlega - Nex	109399	1.00 each			
109407 "UHMW, Impact Saddle, Replacement, Size 1-1/2" x 3-1/2" x 18", w/ 1/4"	109407	7.00 each	53.44 each	374 10 02-16A-04	
109408, "UHMW, Impact Saddie, Replacement, Size 1-1/2" x 5" x 18", w/ 1/4" cha		6.00 each	49 22 each	295.30 02-16A-04	
109419 Oil Canister, p/n: 601296 & 601300, (Drawing #491BIC) - Magotteaux	109-119	2.00 cach	616.00 each	1232.00.02-08D-04	0.00 each 0.00 each
109483: BRIXON MODEL #4 LATCH ASS'Y, STAINLESS STEEL	109489	12.00 cach	239 76 each	2877.12 02-11A-06	0.00 each 0.00 each
109495 Digital Input, 16 N.O., ISO, 110V, p/n 1771-IAD - Allen-Bradley	109495	0.00 each	431.39 each	0.00 NWL	0.00 each 0.00 each
109577 Spring Rod Scal Kit	109577	2.00 each	362.50 cach	725 00 02-10B-01	0.00 each 0.00 each
109584 POLY CHAIN GT SPROCKET	7. —— 1	1.00 each	97.07 each	97 07 02-12D-07	0.00 each 0.00 each
109587 POLY CHAIN GT BELT	109587	1.00 each	(),00 each	0.00 02-178-05	0.00 each 0.00 each
109591 Washer, (For Man Hole liner), DIN 126 M45, ID=48MM, OD=85MM, THK=		25.00 each	2.72 each	68.00 02-09D-04	0.00 each 0.00 each
109594 Motor, Electric, 1/3 hp. (B(X) rpm, 3 ph. ???V AC, TEFC , w/o Feet - WEG		1.00 each	264 00 each	264 00 02-13A-07	0.00 each 0.00 each
109650 Gasket, Lower, Pump Housing Cover, for Mili Drive & Bowl Assy, p/n RE-		1.00 each	35.62 each	(16.62 02-06B-07	0.00 each 0.00 each
109853 Visite Feeder, #30 Chaine Drive Intergral, p/n RT-1719, CE Raymond	109653	1 00 each	12064.96 each	12064.96 U3-01G-04	0 00 each 0 00 each
109656; COLLAR, INNER CLUTCH		1 00 each	2.36 each	2.36 02-12C-07	0.00 each 0.00 each
	109656				0.00 each 0 (k) each
109661 BAND, CLUTCH	109661	1.00 each	157.00 each	157.00 02-05B-05	
109662 HUB, CLUTCH & SPROCKET	109662	1.00 each	190.00 each	190.00 02-06B-08	
109678 KEY, CLUTCH	109670	1,00 each 1	25 25 each	25.25'02-068-06	0.00 each 0.00 each
109671 RUSHING, SPRING ROD, 1" OD X 3/4" ID	109671	2.00 each	1.61 each	3.22 02-06B-07	0.00 each 0.00 each
109672 BELT	109672	1.00 each	41.85 each	41.85 02-068-03	U 00 each 0.00 each
109674 Geat Reducer, Single Worm, p/n REX #SB3230CB, CE Raymond	109674	1,00 each	130,70 ench	130 70 04-03C-04	0.00leach 0.00 each
109676 PIN, SPRING	109676	11.00 each	0 85 each	9 35 02-06B-07	0 00 each 0.00 ਰਹਨ।
109683 Scraper Bracket, p/rt RE-1530 - CE Raymond	109683	2.00 each	466.57 each	933 14 U4-03D-03	0 00 each 0 00 each
109685 Deflector, Elbow, p/n RB-560, CE Raymond	109685	3 00 each	124.18 each	372 53 04-03D-03	0.00 each 0.00 each
109689 Filter, Air, (Sweeper), p/n PA2660FN - Baldwin	109689	2 00 each	20 28 each	40.56 02-15A-04	0.00 each 0.00 each
109691 Bushing, Hinge Gate, p/n MP-20, 7/8' Bore	109691	2.00 each	2.52 each	5.04 02-06C-06	0.00 each 0.00 each
109695 Washer, Journal Saddle, p/o RT-93, CE Raymond	109695	12.00 each	13.99 each	167.83 04-03B-01	0.00 each 0.00 each
109701 CLAMP, AIR SEAL	109701	3.00 each	5.30 each	15 90 02-06A-07	0.00 each 0.00 each
				19.40 02-06A-07	0.00 each 0.00 each
109702 SPACER, AIR SEAL	109702	2.00 each	9.70 each		0.00 each 0.00 each
109707 Reducer, Speed Feeder, p/n MP-108571, CE Raymond	109707	1.00 each	85.25 each	85 25 04-03C-04	
109708 RING, PACKING	109708	1 00 each	89 50 each	89.50 02-06B-06	
109709 SIGHT TUBE, OIL GAUGE W/GP-394 HING	109709	6,00 each	4.00 each	24.00 02-08A-07	0.00 each 0.00 each
109710 SIGHT GLASS, OIL	109710	3.00 each	11.01 each	33 (13 02-068-04	0.00 each 0.00 each
109712 Worm Gear, for Mill Drive & Bowl Assy, p/n RE-576-A - CE Raymond	109712	0 00 each	0.00 each	0.00 NWL	0.00 each 0.00 each
(09715 RING, RETAINING	109715	1,00 each	2,60 each	2.60 02-06A-06	0.00 each 0.00 each
109719 PIN, GROOVE	109719	2.00 each	0.10;each	0.20 02-068-04	0.00 each 0.00 each
109721 Liner, Air Inlet, p/n RT-1427, CE Raymond	109721	2.00 each	126 00 each	252.00 04-03C-04	0.00 each 0.00 each
109722 SPACER, PIPE	109722	2.00 each	2 35 each	4.70 02-06A-06	0.00 each 0.00 each
109723 Liner, Lower Air Inlet, p/n RT-1591, CE Raymond	109723	2.00,each	126,00 each	252.00 04-03C-04	0.00 each 0.00 each
109725 SPACER, PIPE	109725	3.0x1 each	0.95 each	2.85 02-06A-06	0.00 each 0.00 each
109727 I, iner, Air inlet, p/n RT-1593, CE Raymond	109727	2.00 each	225.52 each	451 03:04:03D-03	0.00 each 0.00 each
			175.82 each	351.63 04-03C-04	0.00 each 0.00 each
109720 Liner, Air Inlet, pin RT-1592, CE Flaymond	109728	2,00 each	1,00 each	42.00 02-069-04	0.00 each 0.00 each
109729 SPACER, PIPE	109729	42.00 each			0.00 each 0.00 each
109731 Plate, Seal Insulation, p/n MP-7614E, C.E. Ramond	109731	5.00 each	40.88 each	204.38 04-03C-03	
109733 Liner, Block Off Return Air, p/n RT-1587 - Cf. Raymond	109733	2.00 each	241 79 each	483.58 04-03C-03	
109734 SPACER, PIFE	109734	4,00 cach	2.03 each	8.10 02-06A-06	0.00 each 0.00 each

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109735 Liner, Lower Millside, p/n RT-1584 CE Raymont	109735	3.00 each	319.42 each	958.25 04-03C-01	0 00 leach	0.00leach
109737 Liner, Lower Millside, p/n AT-1586 - CE Raymond	109737	1.00 each	285.02 each	285 02 04-03?-??	U 00 each	0.00 each
109743 Drum Section, Inner Cone, p/n RT-1139-A, CE Raymond	109743	1.00 each	110.77 each	110.77 04-03C-04	0.00 each	0.00 each
11/29744 Blade, Deflector Assy, p/n TSC-9566-B, CE Raymond	109744	12 00 each	62,75 each	753.00 04-03D-03	0.00 each	().(X) each
109746 Extention, Cone Inverted, p/n 72-144-C, CE raymond	109746	2.00 each	120.00 each	240.00 (14-038-01	0.00 each	0.00 each
109747 Clip, Fan Blade, p/n EX-1424, CF Raymond	109747	5.00 each	6.00 each	30.00 04-03B-01	0.00 each	0.00 each
109748 Liner, Bottom Millside, phr RT-1514-AD - CE, Raymond	109748	2.00 each	415.61 each	831,21 04-03C-03	0.00 each	0.00 each
109749 Liner, Bottom Millside, p/n RT-1433 - CE Raymond	109749	4.00 each	156,00 each	624,00 04-03C-03	0.00 each	0.00 each
109750 Liner, Buttorn Millside, p/n RT-1434 - CE Raymond	109750	2.00 each	220.51 each	441,01 04-03C-03	0.00 each	0.00 each
109751 Liner, Bottom Millside, p/n RT-1514-AC - CE Raymond	109751	2.00 each	406.00 each	812.00 04-03C-03	0.00 each	0.00 each
109752 Cam Follower, p/n MP-7597 - CE Raymond	109752	1.00 each	6.38 cach	6.38 02-0GA-06	0 00 each	0.00 each
109753; Drum Section, Inner Cone, p/n RT-1139A, CE Raymond	109753	6.00 each	0.00 each	0.00 04-03C-03	0.00 each	0.00 each
109754 GLAND, PACKING	109754	1.00 cach	51.45 each	51.45 02-06C-07	0.00 each	0.00 each
109756 PIN, GROOVE	109756	12.00 each	0.00 each	0.00 02-068-04	0 00 each	0 00 each
109827 BOLT, COUPLING, 1-1/4" X 5", NC	109827	18.00 each	9.06 each	163.09 02-06A-08	0 00 each	0 udleach
109042; MOTOR, RPM 1740, HP, 1, 208-230 V	109842	0.00 each !	0 00 each	0.00 NWL	0.00 each	0 00 each
109857 Bushing, CLutch Hub, p/n MP-4698 - CE Raymond	109857	1,00 each	79.00 each	79.00 02-06C-06	0.00 each	0.00 each
109970 Bearing, 260 mm, Stright Bore, Spherical Roller Big., p/n 22252 - SKF - Tor	109870	2.00 each	3396 00 each	6792.00 1-Apr	0.00 each	0.00 each
109871 Adapter Assy, 240 mm, p/n HSP H3152, for, Bearing, 260 mm, Stright Bore	109871	2.00 each	984 00 each	1968 00 1-Apr	0 00 each	0.00 each
109882 JAW HEAD, SLIDING	109882	1.00 each	183 86 each	183.86 02-06D-08	0.00 each	0.00 each
109916 Motor, Electric, 1.5 hp. 1800 rpm, ???-C frame, 230/460V AC, W/ Brake As	109916	1.00 each	1845 00 each		03D-04 0.00 each	0.00 each
1029/34/MOTOR, GE, 15 HP, RPM 1200, FRAME 284TCZ, 3 PHASE, 60 HZ	109938	0.00 each	500,00 each	0.00 NWL	0.00 each	0.00 each
109946; Return Roller, 5" x 20", Replacement, p/n G26425-5-11-100, for; MK-100 - F		5.00 each	0.00 each	0 00 04-01B-04	0 00 each	0.00 each
1099731Bag, Filter, 6" x 120.5"; 16 oz Polyester Felt, Snapband Top, Disc Buttorn, P.		31.00 each	11,76 each	364.56 04-068-08	0 00 each	0.00 each
110032 Motor, Electric, 1000 hp, 850 rpm, frame CD4674, (New/Rebuild), 3 ph, 500		1.00 each	43403.13 each	43403 13 Detta Electric	0 00 each	0.00 each
110074 'Replacement Screen, (for Strainer, "Y" type, 1" ript, 250 psi, p/n 11-M - Mu		4.00 each	7.07 each	29.29 02-08D-06	0,00 each	0.00 each
110150 Nozzle, Spray, Brass, Whirtjet, 1° npt, 12.7 gpm € 5 psi, Coverage = 6-1/2	110150	8.00 each	36.53 each	292.24.02-02B-07	0 00 each	0.00 leach
110151 Nozzie, Spray, Brass, Whirtjel, 1" npt, 12 0 gpm & 7 psi, (Bottom Header).	110151	16.00 each	27.24 each	435 84 02-028-07	0.00 each	0.00 each
110194 Electronic Indicating Temperture Controller, #802F - 4BS - United Electric C		1.00 each	441.00 each	448.00 02-138-07	0.00 each	0.00 each
110198 Coupling, for: Classifier Drive, N-Eupex. Position 28, p/n 820882-00 - Loesc		0.00 each	158 25 each	0.00 02-10C-07	0.00 each	0.00 each
110304 'Seal, Rotary Shaft, " use cal # 102591 " p/n 866.190.00.00 - Plister	110304	3.00 each	149 60 each	448 80 02-07A-04	0.00 each	0 00 each
110314 Processor, Ethernet, PLC 5/40, series D, revision B, p/n 1785-L40E D - Alle		1.00 each	2512.00 each	2512.00 02-13B-08	0.00 each	0.00 each
110321 Anchor, "V", Refractory, 5/16" dia. x 5" Long, SS 304, WFV, 312, CL 13.500	110321	0.00 each	1.65 each	0.00 08-01B-02	0,00 each	0.00 each
110335 Motor, Electric, 10 hp, 1200 rpm, 256T frame, 3 ph, p/n B0106FLF2US02	110335	1,00 each	0.00 each	0.00 04-05E-01	0.00 each	0.00 each
110377 Pulley, H.D. Crown Face, 16" dia. x 38" wide, E QO hubs - Dodge	110377	1.00 each	-229 03 each	-229.03 04-04C-04	0.00 each	0.00 each
110391 Tire, Grinding, Heavy Duty, (for Loesche 35 Raw Mill), dwg D27748-02, ID #	110391	0.00 each	20180 (X) each	0.00 11-01A-01	0.00 each	0.00 each
11(41) Blade, Scaper, 36' Bell, HDQC1, Brown, p/n 35381-3611BR - Martin	110418	0.00 each	492.00 each	0.00 02-16C-03	0.00 each	0.00jeach
110626 Brush, Carbon, DC Motor, Size: 1.000 - M x 1.500 x 2.75, (for: 1250 Hp ID F.	110626	18.00 each	17.04 each	306 70 02-13B-05	0.00 each	0.00 cach
110680 Pump, Gear, Flange Mounted, w/ Mechanical Seal, p/n 18AM01 - Roper	110680	0.00:each	309.55 each	0.00 NWL	0.00 each	0.00leach
110684 Motor, Electric, 40 hp. 1800 rpm, 3241 Irame, (New/Rebuild), 230/460V AC	110684	0.00 each	1101,13 each	0.00(04-059-03 Ap	plied Ind 0.00 each	0.00 each
110690 Sprocket, 15 Tooth, RC 80, SK QD Bushed, Hardoned Tooth, p/n 80SK15H	110690	1.00 each	28 87 each	28 87 02-12A-05	0.00 each	0.00 each
110691 Bushing, QD, SK x 2-3/8" - Martin	110691	2.00 each	44,51 each	89.01/02-12A-05	0.00 each	0.00 each
110792 Filter, Air, Dual Stage, p/n L99453 - Gehl / p/n 6562 - Napa	110792	1 Oxleach	29.82 each	29.82 Steve	0.00 each	0.00 each
1107B3 Filter, Oil, p/n L99420 - Gehl / p/n 7243 - Napa	110793	1,00 each	10.02 each	10.02 Steve	0.00 each	0.00 each
110794 Filter, Fuel, (for Gehl Fork Truck), p/n L98978 - Gehl / p/n RE60021 - John C	110794	1.00 each	14,59 each	14.59 02-150-03	0.00 each	0.00 each
110835 Trough Section, Screw, 20" dia x 3/16" mild steel, Bolt on style (for 514,SC1	110835	1.00 each	1836.00 each	1836.00 04-03E-02	0.00 each	0.00 each
111011 Coll, Sciencid Valve, 110/120V, 50/60hz, p/n H502 - ALCON	111011			NWL	0 00 each	0.00 each
111045 Blade. Classifier Eviension, (for Loesche Mill), (set=40 each), p/n 730-90-2-	Laurescen in the president	O.(II) each	39.00 each	0.00 NWL	0.00 each	0.00 each
111173 Support Roller and Shaft Assy . 1300mm dia. x 900mm face, 118-1/8" x 47-		1,00 each	36167:50 each		NORTH 0 00 each	0.00\each
111174 Support Roller and Shaft Assy., 3000mm dia. x 1200mm lace, (for Kith Pier	111174	1.00 each	192074.08 each		NORTH F 0.00 each	(1.00,each
111175 Support Roller and Shaft Assy, 1500mm dia, x 800mm face, (for Kiln Pier #		1,00 each	56196.80 jeach		NORTH 0.00 each	0,00 each
111176 Roller Bearing Assy., 400mm x 570mm, 15-3/4*, Type RA 689029, Bronze,		2 00 each	22138 24 each	44276.47 07-01A-01 07	-NORTH F 0.00 each	0.00 each
111177 Roller Bearing Assy., 450mm, 17-3/4*, Bronze, LH/RH Side, (for Kiln Pier #		2 00 each	25270,97 each	50541.94 07-01A-01 07	NORTH 0.00 each	0.00 each
The state of the s						

11176 Febre Bearm, Ass., 710mm, 29: Broaze, LVMH Size, for film Pire # 2, 5 11177 20 jacon 12500 Roll of 31.4-0 07-007114 0.00 jacon 0.00 jacon 11100 Ja	111179 Colleg Beauty Ass., 710 201 Occ., 111701 Old (1-17) Disc (1-17)	4 4 4 4 7 4 1 1	201	50054 001	110500 00 00 01	AT HODELA	0.001	0.00 each
1112 Steet Lube Spray, Mohil 475, 112 es, pag case)						UV-NORTH Y		
11125 Software, Pictor Foot, Prince of Pri								
11155 Conurol Parts, series 8 1010 881, to Mosco Fump, pn 85 005322. Mode 111555 Conurol Parts, series 8 1010 881, to Mosco Fump, pn 85 005322. Mode 11155 Conurol Parts, series 8 1010 881, to College 2011 11155 Conurol Parts, series 8 1010 881, to College 2011 11155 Conurol Parts, series 9 1010 881, to College 2011 11155 Conurol Parts, series 9 1010 881, to College 2011 11155 Conurol Parts, series 9 1010 881, to College 2011 11155 Conurol Parts, series 9 1010 881, to College 2011 11155 Conurol Parts, series 9 1010 881, to College 2011 11155 Conurol Parts, series 9 1010 881, to College 2011 11155 Conurol Parts, series 9 1010 881, to College 2011 11155 Conurol Parts, series 9 1010 881, to College 2011 11155 Conurol Parts, series 9 1010 881, to College 2011 11155			1400 4			···		
111455 Armour Finight Complete, 2002 Design, (each-sein-12 pos), phr In FSSD 217-0. 111455 111455 1000						.,		
111456 Complete, 2002 Design, (each-sealed pos), ptr 681035 0-07 (d. 111456) 111456 1								
11465 Backstep, Cetmag SCW, sh 90514, PrewRebuild, Iohr Kiln Aus Drivery 11465 Backstep, Cetmag SCW, sh 90514, PrewRebuild, Iohr Kiln Aus Drivery 11465 Backstep, Cet., 273 x 224 x 11469 000 each								
111498 Bulk Bag Loading Machine, DCC, 575 x P 2250FT 111499								
11155 Spoxy, Regular Set, Inc Ceramic Tile, Her Mesh, West, Cr. R. S. 341, 1625 11701 0.000 acon						···		
1117/10 Montr, Electric, 125 hp. 3600 pp., 4441 \$ Frame, NewWebuild, 360V AC, 1117/10 0.00 acch 12692 (completa, Iransition, Chell 30 deeps, graft sat 5 7) 1117/54 300 acch 117/54 300 acch								
11754 Elbow, Copen Assy, Completal, Transison, Chule 30 degree, [parts 1815.77] 117545 3,000 each 16208 00 leach 17,36 02:120-120 0,000 each 17,36 02:120-120 0,000 each 17,36 02:120-120 17,36 02:120								
13045 Starrup, Harger, Z. Gla., Sciev Converyor, Hard from Oil Impregnated, ph. O. 112435 200,6ach 17,03 16,00 17,						Applied Ind		
11228 Torqua Amm, Mod TA45071, JPD 078569- Falk 11226 1.00 each 10.3 3) each 20.0 2020 - 0.00 each 0.00 each 0.00 each 112255] Gludie, Oil Scraper (kin Trunon Bearing, Proof # 27418, pin 864246 - Fulls 112255] 1.00 each 0.00 each 0.00 (2020-04 0.00 each 0.00 each 1.00 (2020-04 0.00 each 0.00 (2020-04 0.00 each 0.00 (2020-04 0.00 each 0.00 (2020-04 0.00 each 0.00 (2020-04 0.00 (2020								
112252 Hotiler, Oil Stapper, Kin Trunon Bearing, Prod # 27418, pri 864246 - Fulk 112252 1.00 leach 188.00 leach 0.000 leach 0.00				tagen e ne care que aprile procumo como e po				
19255 Guide, Oir Scraper Kin Trunion Bearing, Prof. 27419, pm 864246 - Fulls 112253 0.00] each 0.00] each 0.00] each 0.00] each 10277; Filter, Air, Callahan TA), ph 7284 - Napa 112277 0.00] each 7.30] each 0.00] Steve 0.00] each 0.00] each 10277; Filter, Air, Callahan TA), ph 7284 - Napa 112277 0.00] each 7.30] each 0.00] Steve 0.00] each 0.00] each 10277; Filter, Air, Callahan TA), ph 7284 - Napa 112277 0.00] each 7.30] each 0.00] Steve 0.00] each 10245] Birck, Krones R7, 114mm, 32(11). Refratechnis 11245] Birck, Krones R7, 114mm, 21(21). Refratechnis 11245] Birck, Krones R7, 114mm, 21(21). Refratechnis 11245] Birck, Krones R7, 114mm, P11 - Refratechni								
112276 Filter, Off, Collaham, Thi, John 1288 - Napa								
112277 Falter, Air. (Callathan Trist, pro 2984 - Napa 112277 0.00 each 7.3 03 each 0.00 Selve 0.00 each 0.00 each 12459 Brick, Krones R7, 114mm, 28(31) - Refratechnik 112450 1135 00 each 7.48 each 320 each 3.9 6.4 Phor 0.00 each 0.00 each 12459 Brick, Krones R7, 114mm, P11 - Refratechnik 112451 1250 each 3.28 each 3.9 6.4 Phor 0.00 each 0.00 each 12459 Brick, Krones R7, 114mm, P11 - Refratechnik 112451 1250 each 3.58 each 3.9 6.4 Phor 0.00 each 0.00 each 12452 Brick, Krones R7, 114mm, P11 - Refratechnik 112452 Each 12452 Brick, Krones R7, 114mm, P11 - Refratechnik 112452 Brick, Krones R7, 114mm, P11 - Refratechnik 112452 Each 12452 Brick, Krones R7, 114mm, P11 - Refratechnik 112452 Each 12452 Brick, Krones R7, 114mm, P11 - Refratechnik 112452 Each 12452 Each 12			0.00 each	60 00 each		i		
12449 Brick, Kroner 87, 14emn, 3K211 - Refratechnik 12451 Brick, Kroner 87, 14emn, 3K211 - Refratechnik 12451 Brick, Kroner 87, 14emn, 2K211 - Refratechnik 12451 Brick, Kroner 87, 14emn, 2K211 - Refratechnik 12451 Brick, Kroner 87, 14emn, 2K21 - Refratechnik 12451 Brick, Kroner 87, 14emn, 2K22 - Refratechnik 12451 Brick, Kroner 87, 14emn, 2K22 - Refratechnik 122839 Brick, Almag 85, 220 mm, Long, prin 52221 - Baymay / Refratechnik 122830 000 each 1402 each 000 NWL 0.00 each 0.00 each 0.00 each 122850 Mountang Bring, Itor Sampler Mounting Flarige), 4.716-5 da x 127 wide, Drai 122830 000 each 1402 each 0.00 NWL 0.00 each 0.00 each 0.00 each 122850 Mountang Bring, Itor Sampler Mounting Flarige), 4.716-5 da x 127 wide, Drai 122830 0.00 each 1.00 each 0.00 each 0.0			200 each					
112450 Birck, Kronek 87, 114mm, 91.1 Refratechnik 112450 135.00 each 3.25 each 9.95 04 From 0.00 each 0.00 each 12451 Birck, Kronek 87, 114mm, 91.1 Refratechnik 112451 12452 Birck, Kronek 87, 114mm, 91.1 Refratechnik 112451 12452 Birck, Kronek 87, 114mm, 91.1 Refratechnik 112452 Birck, Kronek 87, 12452 Birck, Kronek 87, 114mm, 91.1 Refratechnik 112452 Birck, Kronek 91.1 Refratechnik 112452 Birck, Kronek 91.1 Refratechnik 112452 Birck, Kronek 91.1 Birck, Kronek		112277	0.00 each_	73 03 each 1				
112451 Birick, Krinnak 87, 114mm, P.11 - Refratechnik 112451 28.00 each 3.25 each 59.55 0.4 Proor 0.00 each 0.00 each 112597 Reduction, Genthor, (NewWellbuild), Shall Mount, 24.1 Ratio, wr.5-7/16° St) 172597 1.00 each 20402 0.5 each 20	112449 Brick, Kronex 87, 114rpm, 3K211 - Refratechnik	112449	4140,00 each	7.54 each	31200 05 04-Floor			0.00 each
112451 Birlox, Kronex 87, 114mm, P.11. Refratechnix 112451 28.00 each 3 25 each 3 64 0 4-Floor 0.00 each 102597 Reduction, Gentrox, (New Metbuild), Shall Mount, 24 1 Raio, w. 5-71 (5 33, 12587) 1.00 each 20409.05 each 2409.05 0.00 each 10.00 each	112450 Brick, Kronex B7, 114mm, 3K311 - Refratechnik	112450	1135 00 each	7.48 each	8489 38 04-Floor			
112597 Reduction, Genthox, (New/Rebuild), Shath Mount, 24 T Ratio, wr 5-77167 Sty 112597 1.001 each 1.020 each 1.0400, seach 1.000 each	112451 Brick, Kronex 87, 114mm, P11 - Refratechnik	112451	. 28.00 each	3 25 each	90 95 04 Floor			
1/28/39 Brick, Almag 85, 220 mm, Long, p/n 8322L. Baymag / Petratechnik 1/28/39 0.00 each 14.02 each 56.00 DM, 0.00 each 1/28/40 1	112452 Brick, Kronex 87, 114mm, P+11 · Refratechnik	112452	1.00 each	3.65 each	3 64 04-Floor		0.00 each	
112840 Price, Arinag 85, 220 mm, Long. p/n 8622L - Baymag / Refratechnik 112840 40.00 each 1.00 each 0.00 Next 0.00 each 1.20 each 1.00 each	112597 Reduction, Gearbox, (New/Rebuild), Shaft Mount, 24:1 Ratio, w/ 5-7/16" Sha	112597	1.00 each	20400.05 each	29400.95 04-01D-03		nou each	0 00 each
112840 Price, Arinag 85, 220 mm, Long. p/n 8622L - Baymag / Refratechnik 112840 40.00 each 1.00 each 0.00 Next 0.00 each 1.20 each 1.00 each	112839 Brick, Almag 85, 220 mm, Long, p/n 8322L - Baymag / Retratecturik	112839	0 00 each	14.02 each	0.00 NWL		0.00 each	0 00 each
12980 Mounting Ring, (for Sampler Mounting Flange), 4.7716* dia x 1/2* wide, Dray 112890 0.00 leach 1.00 leach 0.00 leach 1.00 leach 1.00 leach 0.00 leach 1.128718 1.1288818		112840		14 02 each	560.80 04-Floor		0.00 each	0 00 each
113297 brojsk Kruzine-70, [ringe=54 ea], [pallet=216 ea], VDZ B-922 - Harbison-Walk 1 13298 3276 60 geach							0.00 each	0.00 each
113298 Birks, Kruzite-70, (rings-2 ea), P.220 - Harbison-Walker 113299 352 00 each 3790 each 3790 13 0 each 0.00 e							0.00 cach	0 00 each
113299 Brick, Key, Kluziter 70, (ring=2 ea), P-220 - Harbison-Walker 113299 352 00 each 7 05 each 1353 60 04 Floor 0 00 each 0.00 each 113300 Bridk, Key, Kluziter 70, (ring=2 ea), P-221 - Harbison-Walker 113303 Brotection Tube, 20 act (New), Well (tib 22" thermocouple, Inconet, (for, 1 13363 0.00 each 1353 60 04 Floor 0 00 leach 0.00 each 113567 Arisides, (3 piece), (from Silo 1 19 directly to the shaker at the Load-Point, or 113567 2.00 each 12512 00 loa-050-01 03-044-04 07) each 113567 [Fin, Radial, 25 Sh822, 7202/act 1 each 20 per line. 4 XDAT, (for 9800 CAT), (1 13567 2.00 each 12512 00 loa-050-01 03-044-04 07) each 0.00 leach 113597 [Fin, Radial, 25 Sh822, 7202/act 1 each 20 per line. 4 XDAT, (for 9800 CAT), (1 13685 0.00 each 13819 30 linew item 0.00 leach 0.00 leach 113597 [Fin Radial, 25 Sh822, 7202/act 1 each 20 per line. 4 XDAT, (for 9800 CAT), (1 13687 0.00 each 13850 0.00 each 13800 leach 10.00 leach 0.00 leach 13850 0.00 each 13850 0.00 leach 13850								
113300 Brick, Key, Kruzite 70, (ring=2 ea), P. 221 - Harbison-Walker 113300 192.00 each 7.05 each 1353 60) 0.4 Floor 0.00 leach 0.00 leach 1356 Ariside, (a) price plane 1.00 member							0.00 each	0.00 each
113363 Protection Tube, 20' oat. (New), Well (for 22' Thermocouple, Incomet. (for, 1 13363)							0 00 leach	0 00 each
113567 Arside, (3 piece), (from Silo # 19 directly to the shaker at the Load-Point, of 113567 200 each 4556 80 each 42512 200 (3-05D-01 63-04A-04 0.00 each 113652 free, Raddin, 29.5125, 72732nds fread Depth, E.4, XADT, (for 980G CAT), (113652 4.00 each 4554 84 each 8219, 30 (new item) 0.00 each 0.00 each 0.00 each 113697 Rotor Assy, w/ Sealing Plates, Complete, (Rebuild), (for Carciner Pfister) pt 113687 0.00 each 0.00 each 0.00 each 0.00 each 0.00 each 113697 Rotor Assy, w/ Sealing Plates, Complete, (Rebuild), (for Carciner Pfister) pt 113697 0.00 each 0.00 each 0.00 each 0.00 each 0.00 each 113698 Birds, price R9700 KW 622 - Clayburn 113899 1176 00 each 7.67 each 9019 92 04-4 Ploor 0.00 each 113899 Birds, price R9700 KW 222 - Clayburn 113899 1176 00 each 7.67 each 7700 69 04- Ploor 0.00 each 113800 Birds, price R9700 KW 222 - Clayburn 113899 10004,00 each 7.67 each 406 51 04- Ploor 0.00 each 113801 Birds, price R9700 KW 222 - Clayburn 113900 55.00 each 7.67 each 406 51 04- Ploor 0.00 each 113801 Birds, price R9700 KW 222 - Clayburn 113892 113802 11.00 each 13.60 each 152 42) da Floor 0.00 each 0.00 each 113802 Birds, Magkor B, 220mm this x 90mm Ing, Long Cul, VDZ Shape, prin B-22 113983 216.00 each 13.80 each 152 42) da Floor 0.00 each 0.00 each 114856 Birds, Magkor A, 220mm this x 198mm Ing, VDZ Shape, prin B-22 - Refram 14850 6000 aach 82 each 794 232 04- Floor 0.00 each 0.00 each 114856 Birds, Magkor A, 220mm this x 198mm Ing, VDZ Shape, prin P-220 - Refram 14859 37.00 each 124 each 418 10 (A4-Roor 0.00 each 0.00 each 114958 Birds, Magkor A, 220mm this x 198mm Ing, VDZ Shape, prin P-220 - Refram 14850 34.00 each 124 each 418 10 (A4-Roor 0.00 each 0.00 each 114958 Birds, Magkor A, 220mm this x 198mm Ing, VDZ Shape, prin P-220 - Refram 14859 37.00 each 30.30 each 30.30 each 30.30 each 30.30 each 30.30 each 3							0 00 each	0 00 each
113652 Ten, Radial, 29.5R25, 72/32nds Tread Depth, E-4, XADT, (for 980G CAT), (113652 4 00 each 4554 84 each 18219.30 riew item 0 00 each 0.00 each 13996 Rotor Assy, w/ Sealing Plates, Complete, (Rebuild), (for Kiin Plister), ph 550 13686 0.00 each 0.00 each 0.00 NWL 0.00 each 0.00 NWL 0.00 each 0.00 NWL 0.00 each 0.00 NWL 0.00 each 0.00 NWL 0.00 each 0.00 each 0.00 NWL 0.00 each 0.00 each 0.00 NWL 0.00 each 0.00 each 0.00 each 0.00 NWL 0.00 each 0.00 each 0.00 each 0.00 NWL 0.00 each 0						03-04A-04		
113995 Frotor Assy, w/ Sealing Plates, Complete, (Rebuild), (for Kilin Pfister) ph/ 556 113686 0.00 each 39508.00 each 0.00 NWL 0.00 each 0.00 occident 0.00 NWL 0.00 each 0.00 each 113687 Frotor Assy, w/ Sealing Plates, Complete, (Rebuild), (for Calciner Pfister) ph/ 513687 0.00 each 0.00 each 0.00 each 0.00 each 0.00 each 113899 Birck, ph/ CB70D KW 222 - Clayburn 113899 1176.00 each 7.67 each 9019 20 04 Floor 0.00 each 0.00 each 113899 Birck, ph/ CB70D KW 322 - Clayburn 113899 1004.00 each 7.67 each 7703.68 04 Floor 0.00 each 0.00 each 113900 Birck, ph/ CB70D KW 222 - Clayburn 113900 55.00 each 7.67 each 7.67 each 406.51 04 Floor 0.00 each 0.00 each 113901 Birdk, ph/ CB70D KW 222 - Clayburn 113901 53.00 each 7.67 each 406.51 04 Floor 0.00 each 0.00 each 113982 Birck, Magkor B, 220mm thk x 300mm Ing. Long Cul, VDZ Shape, ph/ B-62, 113982 11.00 each 13.86 each 152.43 UA Floor 0.00 each 0.00 each 113983 Birck, Magkor B, 220mm thk x 198mm Ing. VDZ Shape, ph/ B-22 - Refrain 114857 90.00 each 9.37 each 59016 60 04 Floor 0.00 each 0.00 each 114857 Birck, Magkor A, 220mm thk x 198mm Ing. VDZ Shape, ph/ B-22 - Refrain 114857 90.00 each 9.37 each 59016 60 04 Floor 0.00 each 0.00 each 114858 Birck, Magkor A, 220mm thk x 198mm Ing. VDZ Shape, ph/ B-22 - Refrain 114851 34.00 each 12.24 eac								
113687 Folior Assy, w/ Sealing Plates, Complete, (Rebuild), (for Caktiner Pfister) p. 113687 0.00 each 0.00 each 0.00 each 0.00 each 113898 Birck, p/n CB70D KW 622 - Clayburn 113898 1176 00 each 7.67 each 9019 92 04-flyoor 0.00 each 0.00 each 113899 Birck, p/n CB70D KW 322 - Clayburn 113899 1004.00 each 7.67 each 7.67 each 7.700.68 04-flyoor 0.00 each 0.00 each 113900 Birck, p/n CB70D KW 221 - Clayburn 113899 1004.00 each 7.67 each 7.67 each 421.65 04-flyoor 0.00 each 0.00 each 113901 Birck, p/n CB70D KW 222 - Clayburn 113900 55.00 each 7.67 each 421.65 04-flyoor 0.00 each 0.00 each 113901 Birck, p/n CB70D KW 222 - Clayburn 113901 Birck, Magkor B, 220mm thk x 198mm lng, Long Cut, VDZ Shape, p/n B-622 - Telefam 114856 Birck, Magkor A, 220mm thk x 198mm lng, VDZ Shape, p/n B-622 - Refram 114857 Birck, Magkor A, 220mm thk x 198mm lng, VDZ Shape, p/n B-222 - Refram 114857 Birck, Magkor A, 220mm thk x 198mm lng, VDZ Shape, p/n B-221 Refram 114857 Birck, Magkor A, 220mm thk x 198mm lng, VDZ Shape, p/n P-221 Refram 114857 Birck, Magkor A, 220mm thk x 198mm lng, VDZ Shape, p/n P-221 Refram 114857 Birck, Magkor A, 220mm thk x 198mm lng, VDZ Shape, p/n P-221 Refram 114859 Birck, Magkor A, 220mm thk x 198mm lng, VDZ Shape, p/n P-221 Refram 114859 Birck, Magkor A, 220mm thk x 198mm lng, VDZ Shape, p/n P-221 Refram 114859 Bir								
113898 Birck, p/n CB70D KW 622 - Clayburn			and the state of t	triberia processiones parines (acceptances)				
113899 Brick, prin CB70D KW 322 - Clayburn 113899 1004.00 each 7.57 each 7707.66 0.4-Phot 0.00 each 0.00 each 113900 Brick, prin CB70D KW 221 - Clayburn 113900 55.00 each 7.57 each 421.85 0.4-Phot 0.00 each 0.00 each 113901 Brick, prin CB70D KW 222 - Clayburn 0.00 each 0.00 each 113901 Brick, prin CB70D KW 222 - Clayburn 0.00 each 0.00 each 113902 Brick, Magkor B, 220 clayburn 0.00 each 0.00 each 113903 Brick, Magkor B, 220 clayburn 0.00 each 0.00 each 113903 Brick, Magkor B, 220 clayburn 0.00 each 0.00 each 113903 Brick, Magkor B, 220 clayburn 0.00 each 0.00 each 113903 Brick, Magkor B, 220 clayburn 0.00 each 0.00 each 113903 Brick, Magkor A, 220 clayburn 0.00 each 0.00 each 113903 Brick, Magkor A, 220 clayburn 0.00 each 0.00 each 0.00 each 114856 Brick, Magkor A, 220 clayburn 0.00 each 0.00 each 0.00 each 114856 Brick, Magkor A, 220 clayburn 0.00 each 0.00 each 114856 Brick, Magkor A, 220 clayburn 0.00 each 0.00 each 114856 Brick, Magkor A, 220 clayburn 0.00 each 0.00 each 114856 Brick, Magkor A, 220 clayburn 0.00 each 0.00 each 114856 Brick, Magkor A, 220 clayburn 0.00 each 0.00 each 114856 Brick, Magkor A, 220 clayburn 0.00 each 0.00 each 114856 Brick, Magkor A, 220 clayburn 0.00 each 0.00 each 114856 Brick, Magkor A, 220 clayburn 0.00 each 0.00 each 114856 Brick, Magkor A, 220 clayburn 0.00 each 0.00 each 114856 Brick, Magkor A, 220 clayburn 0.00 each 0.00 each 114856 Brick, Magkor A, 220 clayburn 0.00 each 0.00 eac								
113900 Brick, Nr CB70D KW 221 · Clayburn 113900 55.00 each 7.67 each 421.85 04 Floor 0.00 each 0.00 each 113901 Brick, pr CB70D KW 222 · Clayburn 113901 53.01 each 7.67 each 406.51 04 Floor 0.00 each 0.00 each 113982 Brick, Magkor B, 220mm thk x 300mm Ing. Long Cul., VDZ Shape, pr B-62, 113982 11.00 each 13.86 each 152.43 04 Floor 0.00 each 0.00 each 113983 Brick, Magkor B, 220mm thk x 300mm Ing. Long Cul., VDZ Shape, pr B-62, 113983 216.00 each 13.86 each 152.43 04 Floor 0.00 each 0.00 each 144956 Brick, Magkor A, 220mm thk x 198mm Ing. VDZ Shape, pr B-222 · Refram 114857 900.00 each 13.95 each 59016.60 04 Floor 0.00 each 14457 Brick, Magkor A, 220mm thk x 198mm Ing. VDZ Shape, pr B-222 · Refram 114857 900.00 each 152.43 04 Floor 0.00 each 14458 Brick, Magkor A, 220mm thk x 198mm Ing. VDZ Shape, pr P-220 · Refram 114857 900.00 each 12.74 each 416.10 04 Floor 0.00 each 0.00 each 14458 Brick, Magkor A, 220mm thk x 198mm Ing. VDZ Shape, pr P-220 · Refram 114859 37.00 each 12.74 each 416.10 04 Floor 0.00 each 0.00 each 144538 Brick, Magkor A, 220mm thk x 198mm Ing. VDZ Shape, pr P-221 · Refram 114859 37.00 each 9.03 each 33.99 (04 Floor 0.00 each 0.00 each 144538 Brick, Magkor A, 220mm thk x 198mm Ing. VDZ Shape, pr P-221 · Refram 114859 37.00 each 9.03 each 33.99 (04 Floor 0.00 each 0.00 each 144538 Brick, Magkor A, 220mm thk x 198mm Ing. VDZ Shape, pr P-221 · Refram 114859 37.00 each 9.03 each 33.99 (04 Floor 0.00 each 0.00 each 144538 Brick, Magkor A, 220mm thk x 198mm Ing. VDZ Shape, pr P-221 · Refram 114859 37.00 each 9.03 each 33.99 (04 Floor 0.00 each 0.00 each 144538 Brick, Magkor A, 220mm thk x 198mm Ing. VDZ Shape, pr P-221 · Refram 114859 37.00 each 9.03 each 9.03 each 0.00 each 144538 Brick, Magkor A, 220mm thk x 198mm Ing. VDZ Shape, pr P-221 · Refram 114859 37.00 each 9.03 each 9.03 each 9.03 each 0.00 each 14538 Brick, Magkor A, 220mm thk x 198mm Ing. VDZ Shape, pr P-221 · Refram 114859 37.00 each 9.03 each 9.0								
113901 Brick, pri CB70D KW 222 - Clayburn								
113982 Brick, Magkor B, 220mm thk x 300mm Ing, Long Cut, VDZ Shape, p/n B-62, 113982 11,00 each 13,86 each 152,43 U4-Floor 0.00 each 0.00 each 113983 Brick, Magkor B, 220mm thk x 198mm Ing, VDZ Shape, p/n B-62, 113983 216,00 each 13,86 each 293,26 04-Floor 0.00 each 0.00 each 14,4856 Brick, Magkor A, 220mm thk x 198mm Ing, VDZ Shape, p/n B-622 - Refrain 114856 6300,30 each 3,37 each 59016-60,04-Floor 0.00 each 0.00 each 14,4857 Brick, Magkor A, 220mm thk x 198mm Ing, VDZ Shape, p/n B-222 - Refrain 114857 900,00 each 8,82 each 7942,32 04-Floor 0.00 each 0.00 each 14,4857 Brick, Magkor A, 220mm thk x 198mm Ing, VDZ Shape, p/n B-222 - Refrain 114857 300,00 each 12,24 each 41,510,04-Floor 0.00 each 0.00 each 114958 Brick, Magkor A, 220mm thk x 198mm Ing, VDZ Shape, p/n P-221 - Refrain 114859 37,00 each 9,03 each 333,99 04-Floor 0.00 each 0.00 each 114958 Britk, Magkor A, 220mm thk x 198mm Ing, VDZ Shape, p/n P-221 - Refrain 114859 37,00 each 9,03 each 333,99 04-Floor 0.00 each 0.00 each 114938 Britk, Almag A1, 220mm, 8,322 - Refraire-trink 114939 240,00 each 10,39 each 333,99 04-Floor 0.00 each 0.00 each 115066 Girth Gear & Printon Assy, (New), FLS Kin 4,55 x 68 0, (for Kin Bull Gear), (115061 0.00 each 72100 00 each 0.00 NWL 0.00 each 0.00 each 115061 Unbe System, Croutating, (New), FLS Kin 4,55 x 68 0, (for Kin Bull Gear), (115061 0.00 each 15061 0.00 each 15061 Bricking Shim, 16 ga x 7 x 7 5 ' Double - J & L Technologies 115155 Bricking Shim, 16 ga x 7 x 7 5 ' Souther - J & L Technologies 115155 Bricking Shim, 16 ga x 7 x 7 5 ' Souther - J & L Technologies 115155 Bricking Shim, 16 ga x 7 x 7 5 ' Souther - J & L Technologies 115155 Bricking Shim, 16 ga x 7 x 7 5 ' Souther - J & L Technologies 115155 Bricking Shim, 16 ga x 7 x 7 5 ' Souther - J & L Technologies 115155 Bricking Shim, 16 ga x 7 x 7 5 ' Souther - J & L Technologies 115155 Bricking Shim, 16 ga x 7 x 7 5 ' Souther - J & L Technologies 115155 Bricking Shim, 16 ga x 7 x 7 5 ' Souther - J & L Technologies 115155 Bricking Shim, 16 ga x 7 x 7 5 ' Souther -								
113983 Brick, Magkor B, 220mm thk x 198mm Ing, Long Cul, VDZ Shape, p/n B-22 113983 216.00 each 13.80 each 2993 26 04-Floor 0.00 each 0.00 each 114856 Brick, Magkor A, 220mm thk x 198mm Ing, VDZ Shape, p/n B-222 - Refram 114857 900,00 each 9.37 each 59016.60 04-Floor 0.00 each 0.00 each 14857 Brick, Magkor A, 220mm thk x 198mm Ing, VDZ Shape, p/n B-222 - Refram 114857 900,00 each 8.82 each 7942.32 04-Floor 0.00 each 0.00 each 14857 Brick, Magkor A, 220mm thk x 198mm Ing, VDZ Shape, p/n P-220 - Refram 114857 34.00 each 12.24 each 415.10 04-Floor 0.00 each 0.00 each 14859 Brick, Magkor A, 220mm thk x 198mm Ing, VDZ Shape, p/n P-221 - Refram 114859 37.00 each 9.03 each 333.90 04-Floor 0.00 each 14938 Britis, Almag A1, 220mm, 8232 - Refratectorisk 114938 240.00 each 10.30 each 2473.17 04-Floor 0.00 each 0.00 each 155080 Girth Gear & Pinion Assy, (New), FLS kiin 4.55 x 68.0, (for Klin Bull Gear), (115056 0.00 each 72100.00 each 72100.00 each 0.00 each 0.00 each 155080 Girth Gear & Pinion Assy, VNew, FLS kiin 4.55 x 68.0, (for Klin Bull Gear), (115056 0.00 each 72100.00 each 0.00 each 0.00 each 0.00 each 155080 Girth Gear & Pinion Assy, VNew, FLS kiin 4.55 x 68.0, (for Klin Bull Gear), (115056 0.00 each 72100.00 each 0.00 each 0.00 each 0.00 each 155080 Bricking Shim, 16 ga x 7.5 x 7.5 v								
114856 Brick, Magkor A, 270mm thk x 198mm lng, VDZ Shape, p/n B-622 - Refram 114857 900,00 each 59016.60 04-Floor 0.00 each 0.00 each 14857 Brick, Magkor A, 220mm thk x 198mm lng, VDZ Shape, p/n B-222 - Refram 114857 900,00 each 682 each 7942.32 04-Floor 0.00 each 0.00 each 14858 Brick, Magkor A, 220mm thk x 198mm lng, VDZ Shape, p/n P-220 - Refram 114859 34.00 each 12 74 each 416 10 04-Floor 0.00 each 0.00 each 14938 Brick, Magkor A, 220mm thk x 198mm lng, VDZ Shape, p/n P-221 - Refram 114859 37.00 each 12 74 each 31.00 each 0.00 each 0.00 each 14938 Brick, Almag A1, 220mm, B322 - Reframechnik 114938 Brick, Almag A1, 220mm, B322 - Reframechnik 114859 Brick, A1, 220mm, B322 - Reframechnik 1			·					
114857 Brick, Magkor A, 220mm thk x 198mm lng, VDZ Shape, p/n B-222 Refram 114857 900.00 each 8 Bz each 7942.32 04-Floor 0.00, each 0.00 each 14958 Brick, Magkor A, 220mm thk x 198mm lng, VDZ Shape, p/n P-220 - Refram 114859 37.00 each 12 24 each 418 10 04-Floor 0.00 each 0.00 each 14959 Brick, Magkor A, 220mm thk x 198mm lng, VDZ Shape, p/n P-221 - Refram 114859 37.00 each 9.03 each 333.99 (04-Floor 0.00) each 0.00 each 14938 Brits, Almag A1, 220mm, B322 - Refratechnik 114938 Brits, Almag A1, 220mm, B322 - Refratechnik 114938 Brits, Almag A1, 220mm, B322 - Refratechnik 115056 Grith Gear & Pinion Assy, (New), FLS Kin 4.55 x 68 0, (for Kin Bull Gear), (115056 0.00 each 10.90 each 0.00 loach 0.00 loach 155080 Grith Gear, (New), FLS Kin 4.55 x 68 0, (for Kin Bull Gear), (115056 0.00 each 155080 Grith Gear, (New), FLS Kin 4.55 x 68 0, (for Kin Bull Gear), (115056 0.00 each 155080 Grith Gear), (New), FLS Kin 4.55 x 68 0, (for Kin Bull Gear), (115056 0.00 each 155080 Grith Gear), (New), FLS Kin 4.55 x 68 0, (for Kin Bull Gear), (115056 0.00 each 155080 Grith Gear), (New), FLS Kin 4.55 x 68 0, (for Kin Bull Gear), (115056 0.00 each 155080 Grith Gear), (New), FLS Kin 4.55 x 68 0, (for Kin Bull Gear), (115056 0.00 each 155080 Grith Gear), (New), FLS Kin 4.55 x 68 0, (for Kin Bull Gear), (115056 0.00 each 155080 Grith Gear), (New), FLS Kin 4.55 x 68 0, (for Kin Bull Gear), (115061 0.00 each 155080 Grith Gear), (New), FLS Kin 4.55 x 68 0, (for Kin Bull Gear), (115061 0.00 each 155080 Grith Gear), (New), FLS Kin 4.55 x 68 0, (for Kin Bull Gear), (115061 0.00 each 155080 Grith Gear), (New), FLS Kin 4.55 x 68 0, (for Kin Bull Gear), (115061 0.00 each 155080 Grith Gear), (New), FLS Kin 4.55 x 68 0, (for Kin Bull Gear), (115061 0.00 each 155080 Grith Gear), (New), FLS Kin 4.55 x 68 0, (for Kin Bull Gear), (115061 0.00 each 155080 Grith Gear), (New), FLS Kin 4.55 x 68 0, (for Kin Bull Gear), (115061 0.00 each 155080 Grith Gear), (New), FLS Kin 4.55 x 68 0, (for Kin Bull Gear), (115061 0.00 each 155080 Grith Gear), (New), FLS Ki								
114959 Birck, Magkor A, 220mm thik x 198mm Ing, VDZ Shape, p/n P-220 - Refram 114859 37.00 each 12 24 ench 415 10 04-Exor 0.00 each 1.00								
114859 Brick, Magkor A, 220mm this x 198mm lng, VDZ Shape, p/n P-221 - Refram 114859 37.00 each 9.03 each 333.99 (04-Floor 0.00 each 0.00 each 114938 Britis, Almag A1, 220mm, 8322 - Refrateshnik 114938 240.00 each 10.90 each 2473 17 04-Floor 0.00 each 0.00 each 115056 Girth Gear & Pinion Assy, (New), FLS Kiln 4.55 x 68 0, (for Kiln Bull Gear), (115056 0.00 each 340312.00 each 0.00 NWL 0.00 each 0.00 each 115056 0.00 each 0.00 each 0.00 0.00 each 0.00 0.								
114938 Birisk, Almag A1, 220mm, 8/22 · Refrateshnik 114938 240.00 cech 10.30 cech 2473 17 04-Flobt 0.00 each 0.00 each 115056 Girth Gear & Pinion Assy, (New), FLS Krin 4.55 x 68 0, (for Krin Bull Gear), (115056 0.00 each 340312.00 each 0.00 NWL 0.00 each 0.00 each 155080 Girth Gear, (New), FLS Krin 4.55 x 68 0, (for Krin Bull Gear), (see and 15060 0.00 each 72100.00 each 0.000 or 0.00 each 155080 Linke System, Circulating, (New), FLS Krin 4.55 x 68 0, (for Krin Bull Gear), (see and 15060 0.00 each 72100.00 each 0.000 or 0.00 NWL 0.00 each 0.00 each 155080 Linke System, Circulating, (New), FLS Krin 4.55 x 68 0, (for Krin Bull Gear), (see and 15060 0.00 each 15505 Bircking Shim, 16 ga x 7.5 x 7.5 0.00 Use J & L Technologies 1550 Bircking Shim, 16 ga x 7.5 x 7.5 0.00 Use J & L Technologies 155150 Bircking Shim, 16 ga x 2 x 7.5 (50mm x 210mm), Straight J & L Technold 155150 Isosharge Housing Assy, (New/Rebuild), (Jet Box), (Dwg 115-66-40011, tie 15515 1.00 each 2230.00 04-018-03 0.00 each 0.00 e								
115056 Girth Gear & Pinion Assy. (New). FLS Krin 4.55 x 68 0, (for Krin Bull Gear). (115056 0.00 each 340312.00 each 0.00 NWL 0.00 each 0.00 each 1550(k) Guard. Girth Gear, (New). FLS Krin 4.55 x 68 0, (for Krin Bull Gear). (15060 0.00 each 72100.00 each 0.00 07.01A-01 07.NORTH 0.00 each 0.00 each 150(k) Lube System, Circulating, (New). FLS Krin 4.55 x 68 0, (for Krin Bull Gear). (115061 0.00 each 27000.00 each 0.00 NWL Under Baglio 0.00 each 15505 Bricking Shim, 16 ga x 7.5 x 7.5 v. 7.5						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
115080 Gundt, Girth Gent, (New), FLS Kin 4.55 x 68 0, (for Kin Bull Gear), (see att. 115060 0.00 each 72100 00 each 0.00 07-01A-01 07-NORTH 0.00 each 0.00 each 115081 11508								
115061 Lube System, Croutaing, (New), FLS Kin 4.55 x 68 0, (for Kin 8uli Gear), (115061 0.00 each 27000 00 each 0.00 NWL Under Bagin 0.00 each 0.00 each 115155 Bricking Strim, 16 ga x 7.5" x 7.5", Double - J & L Technologies 115155 180X, (or each 1.96 each 3520.89 NWL 0.00 each 0.00 each 115156 Bricking Shim, 16 ga x 2" x 7.5" (50mm x 210mm), Straight - J & L Technologies 115156 1575, (or each 0.52 each 822.82 NWL 0.00 each 0.00 each 115155 Discharge Housing Assy. (New/Rebuild), (Jet Box). (Dwg 116-66-4-0011, 16, 115515 1, (or each 22.30 NV) each 2230, (or Kin 8uli Gear), (or Kin 8uli Gear), (115061 0.00 each								
115155 Bricking Strim, 16 ga x 7.5° x 7.5° Double J & L Technologies 115155 1800 (0) each 1.96 (each 3520.89 NWL 0.00 (each 0.00 (each 115156) Bricking Shim, 16 ga x 2° x 7.5° (50mm x 210mm), Straight J & L Technolog 115156 1575 (0) each 0.52 (each 822.82 NWL 0.00 (each 0.00 (each 115515) Discharge Housing Assy. (New/Rebuild), (Jet Box). (Dwg 115-66-4-0011, 16, 115515) 1.00 (each 2230.00 (04-018-03) 0.00 (each 0.00 (each 0.00 (each 0.00))								
115150 Bricking Shim, 16 ga x 2' x 7.5' (50mm x 210mm), Straight -3.8 L Technoid 115150 1575.0t each 0.52 each 822.82 NWL 0.000 each 0.000 each 115515 Discharge Housing Assy. (New/Rebuild), (Jet Box). (Dwg 115-66-4-0011, no. 115515 1.000 each 2230.000 04-018-03 0.000 each 0.000 each						Under Bagin		
115515 Discharge Housing Assy. (New/Rebuild), (Jet Box). (Dwg 116-66-4-0011, ftc. 115515 1.00 each 2230.00 04-018-03 0.00 each 0.00 each								
1700 of Distriance Housing Assy, fixem recording, foet box, fowg 110 to 445.11, the 1100 of the 1100 o						·		
115541 Brick, Kronex 87, 114mm; 3K111 - Refratechnik 115541 288.00 each 6.19 each 1782 72/04-Floor 0.00 each 0.00 each		. ~~ ~~ ~~		* . A . L. L. S. L.				
	115541 Brick, Kronex 87, 114mm; 3K111 - Refratechnik	115541	288.00 each	6.19 each	1782 72/04-Floor		0.00 each	0.00 each

115542 Brick, Magkor A, 220mm thk x 198mm lng, VDZ Shape, p/n 8-322 - Refram	115542	4860.00 each	9.50 each	46157.06 04-Floor	0.00 each	0.00 each
1157:30 Cooler Tube Assy, Satellite, Uphill Section, Fabricated in 15Mo3 Material, w.	115730	0 Ot each	113592.66 each	0.00 near truck durrep	() Oil each	n ix) each
115731 Cooler Tube Assy, Satellite, Downhill Section, Fabricated in 15Mo3 Material.	115731	0.00 each	77904.00 Bach	0.00 near truck dump	0.00 each	0.00 each
115839 Airlock, Rotary Feeder Assy, 14" (150mm dia), 8 Vane, 22 rpm, 1.5 hp mtr a	115839	1 00 each	4890 00 each	4890.00 04-03B-04	0.00 each	0 00 each
116018 Reduction, Gcarbox, (New/Rebuild), (for Limestone Weigh Feeder TT331), I	11601B	1 00 each	. 3129.96 each	3129.05 04-04B-02	0.00 each	0.00 each
116114 Epoxy, Fast Set, (for Ceramic Tile, Hex Mesh, Wear, 6" x 6" x 3/4"), (each=t	116114	16.00 each	185.00 each	2960.00,02-17E-04	0.00 each	0 00 each
116176 Shims, (for Pier I Tire) 10ga A36, 10" x 46"	116176	22.00 each	19,86 each	436 99 new item	0.00 each	0.00 each
116177 Shims, (for Pier t Tire) 16ga A36, 10" x 46"	116177	60.00 each	19,86 each	1191.80 new item	0 00 each	0.00 each
116178 Shims, (for Pier I lire) 14ga A36, 10" x 46"	116178	31 00 each	19.86 cach	615,77 new item	0 00 each	0.00 each
116847 Bearing, Thrust, #8-1, [lor PGC, 9 4MUBPX, ratio 39.8861, s/n 143500, 447	116847			new item	0 00 each	0.00 each
116848 Bearing, Cup/Cone, #4-1 & 4-3, [for PGC, 9.4MUBPX, ratio 39.8861, s/n 14	116848			new item	0.00 each	0.00 each
116849 Bearing, Cup/Cone, #4-5 & 4-7, [for PGC, 9.4MUBPX, ratio 39 886 1, s/n 14	116849			new item	0.00 each	0.00 each
116t/50 Bearing, #4-9, [for PGC, 9.4MUBPX, ratio 39.886:1, s/n 143500, 447539, Pt.	115850			new item	0.00 each	0 00 each
116851 Bearing, #8-3, [for PGC, 9 4MUBPX, ratio 39.886;1, s/n 143500, 447539, Pt	116851			new item	0.00 each	0.00 each
116852 Bearing, Radial Sleeve, #7-25. (for PGC, 9 4MUBPX, ratio 39 886:1, s/n 143	116852			new item	0 00 each	0.00 each
116853 Gasket, Inspection Cover, (for PGC, 9.4MUBPX, ratio 39.8861, s/n 143500,	116853			new item	0.00 each	0.00 each
116854 Pin, Dowel, (for PGC, 9.4MUBPX, ratio 39.886:1, s/n 143500, 447539, Phila	116854			now item	0.00 each	0.00 each
116855 Pin, Dowel, (for PGC, 9.4MUBPX; ratio 39.886.1, s/n 143500, 447539, Phila	116855			new item	0.00 each	0 00 each
116856 Pin, Dowel, Hor PGC, 9.4MUBPX, ratio 39.886:1, s/n 143500, 447539, Phila	116856			new item	0.00 each	0.00 each
116857 Pin, Dowet, for PGC, 9,4MUBPX, ratio 39 886:1, s/n 143500, 447539, Phila	116857			new item	0.00 each	0 00 each
116858 Pin, Dowel, Ilor PGC, 9.4MUBPX, ratio 39 886 1, s/n 143500, 447539, Phila	116858			new item	0.00 each	0.00 each
116859 Seal, Oil, [for PGC, 9 4MUBPX, ratio 39 886;1, s/n 143500, 447539, Philade				lnew item	0.00 each	0 00 each
116860 O-Hing, [for PGC, 9.4MUBPX, ratio 39,886:1, s/n 143500, 447539, Philadels				new item	0.00 each	0.00reach
116861 Sun Coupling, for PGC, 9.4MUBPX, ratio 39.8861, \$\frac{1}{2} 143500, 447539, Pt	116861		1	new item	0.00 each	0 00 each
116862 Shaft, Low Speed Hollow, ffor PGC, 9 4MUBPX, ratio 39,886 1, s/n 1435001				new item	0.00 each	0 00 each